Question No : 1 DRAG DROP - (Topic 1)

You administer three Microsoft SQL Server 2008 R2 instances.

Database mirroring is configured in High-Safety mode with Automatic Failover between the following three servers:

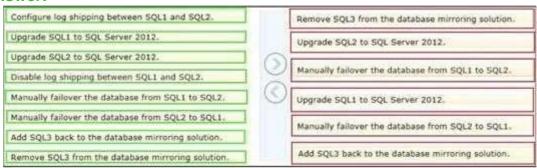
- ⇒ SQL1 is the Principal server.
- ⇒ SQL2 is the mirror server.
- ⇒ SQL3 is the witness server.

You need to upgrade SQL1 and SQL2 to SQL Server . You need to ensure that downtime is minimized during the upgrade.

Which six 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.)

Configure log shipping between SQL1 and SQL2,	
Upgrade SQL1 to SQL Server 2012.	
Upgrade SQL2 to SQL Server 2012.	(3)
Disable log shipping between SQL1 and SQL2.	
Manually failover the database from SQL1 to SQL2.	
Manually failover the database from SQL2 to SQL1.	
Add SQL3 back to the database mirroring solution.	
Remove SQL3 from the database mirroring solution.	

Answer:



Question No: 2 DRAG DROP - (Topic 1)

You administer a Microsoft SQL Server 2016 server.

A variety of issues occur from time to time in the production environment. You need to identify the appropriate tool for each issue.

Which tool or tools should you use? (To answer, drag the appropriate tool or tools to the correct issue or issues in the answer area. Each tool 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.)



Answer:



Question No: 3 - (Topic 1)

You administer two instances of Microsoft SQL Server 2016. You deploy an application that uses a database on the named instance.

The application is unable to connect to the database on the named instance.

You need to ensure that the application can connect to the named instance.

What should you do?

- **A.** Use the Data Quality Client to configure the application.
- B. Start the SQL Server Browser Service.
- **C.** Use the Master Data Services Configuration Manager to configure the application.
- **D.** Start the SQL Server Integration Services Service.

Answer: B

Question No: 4 - (Topic 1)

You administer a Microsoft SQL Server 2016 database.

You create an availability group named haContosoDbs. Your primary replica is available at Server01\Contoso01.

You need to configure the availability group to have the highest availability.

You also need to ensure that no data is lost.

Which Transact-SQL statement should you use?

```
A ALTER AVAILABILITY GROUP hacontogodbs Modify Replica CN

'ServerOl\Contogod' WITH (AVAILABILITY_MODE = ASYNCHRONOUS_COMMIT, FAILOVER_MODE = AUTOMATIC)

B ALTER AVAILABILITY GROUP hacontogodbs Modify Replica ON

'ServerOl\Contogod' WITH (AVAILABILITY_MODE = SYNCHRONOUS_COMMIT, FAILOVER_MODE = MANUAL)

C ALTER AVAILABILITY GROUP hacontogodbs Modify Replica ON

'ServerOl\Contogod' WITH (AVAILABILITY_MODE = SYNCHRONOUS_COMMIT, FAILOVER_MODE = AUTOMATIC)

C D ALTER AVAILABILITY GROUP hacontogodbs Modify Replica ON

'ServerOl\Contogod' WITH (AVAILABILITY_MODE = ASYNCHRONOUS_COMMIT, FAILOVER_MODE = MANUAL)
```

C. FULL 4

D. CHECKSUM 4

Question No: 5 - (Topic 1)

You administer a Microsoft SQL Server 2016 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.

You need to ensure that your backup will continue if any invalid checksum is encountered.

Which backup option should you use?

- A. STANDBY
- **B.** Differential
- C. FULL
- D. CHECKSUM
- E. BULK_LOGGED

- F. CONTINUE_AFTER_ERROR
- G. SIMPLE
- H. DBO_ONLY
- I. COPY ONLY
- J. SKIP
- K. RESTART
- L. Transaction log
- M. NO CHECKSUM
- N. NORECOVERY

Answer: F

Explanation:

References: http://msdn.microsoft.com/en-us/library/ms186865.aspx http://msdn.microsoft.com/enus/library/microsoft.sqlserver.management.smo.backuprestorebase.continueaftererror.aspx

Question No : 6 DRAG DROP - (Topic 1)

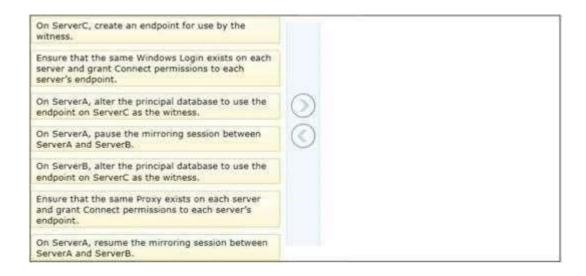
You administer three Microsoft SQL Server 2016 servers named ServerA, ServerB, and ServerC.

ServerA is the acting principal and ServerB is the mirror.

You need to add ServerC as a witness to the existing mirroring session between ServerA and ServerB.

You need to achieve this goal without delaying synchronization.

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:



Question No: 7 - (Topic 1)

You administer all the deployments of Microsoft SQL Server 2016 in your company.

You need to ensure that an OLTP database that includes up-to-the-minute reporting requirements can be off-loaded from the primary database to another server. You also need to be able to add indexes to the secondary database.

Which configuration should you use?

Α.

Two servers configured in different data centers

- SQL Server Availability Group configured in Synchronous-Commit Availability Mode
 One server configured as an Active Secondary
- B.
- Two servers configured in the same data center
- SQL Server Availability Group configured in Asynchronous-Commit Availability Mode
 One server configured as an Active Secondary
- C.
- Two servers configured in the same data center
- A primary server configured to perform log-shipping every 10 minutes
 A backup server configured as a warm standby
- D.
- Two servers configured in different data centers
- SQL Server Availability Group configured in Asynchronous-Commit Availability Mode
- E.
- Two servers configured on the same subnet
- SQL Server Availability Group configured in Synchronous-Commit Availability Mode

F.

- SQL Server that includes an application database configured to perform transactional replication
- G.
- SQL Server that includes an application database configured to perform snapshot replication
- H.
- Two servers configured in a Windows Failover Cluster in the same data center
 SQL
 Server configured as a clustered instance

Answer: F Reference:

http://msdn.microsoft.com/en-us/library/jj542414.aspx

Question No:8 - (Topic 1)

You administer a Microsoft SQL Server 2016 database.

The database contains a Product table created by using the following definition:

```
CREATE TABLE dbo.Product
(ProductID INT PRIMARY KEY,
Name VARCHAR(50) NOT NULL,
Color VARCHAR(15) NOT NULL,
Size VARCHAR(5) NOT NULL,
Style CHAR(2) NULL,
Weight DECIMAL(8,2) NULL);
```

You need to ensure that the minimum amount of disk space is used to store the data in the Product table.

What should you do?

- A. Convert all indexes to Column Store indexes.
- B. Implement Unicode Compression.
- **C.** Implement row-level compression.
- **D.** Implement page-level compression.

Answer: D

Explanation:

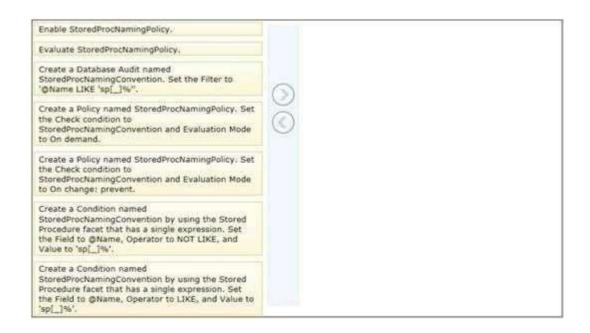
References: http://msdn.microsoft.com/en-us/library/cc280449.aspx http://msdn.microsoft.com/en-us/library/cc280464.aspx http://msdn.microsoft.com/en-us/library/cc280576.aspx http://msdn.microsoft.com/en-us/library/ee240835.aspx

Question No: 9 DRAG DROP - (Topic 1)

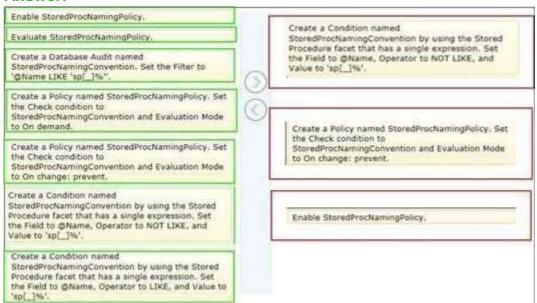
You administer a Microsoft SQL Server 2016 server that has multiple databases.

You need to ensure that users are unable to create stored procedures that begin with sp_.

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:

- Create a Condition named StoredProcNamingConvention by using the Stored Procedure facet that has a single expression. Set the Field to @Name, Operator to NOT LIKE, and Value to 'sp[_]%'.
- Create a Policy named StoredProcNamingPolicy Set the Check condition to StoredProcNamingConvention and Evaluation Mode to On Change: Prevent ○ Enable StoredProcNamingPolicy

Question No: 10 - (Topic 1)

You administer a Microsoft SQL Server 2016 server.

When transaction logs grow, 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. SQL Mail
- B. An Extended Events session
- C. Alerts and operators in SQL Server Agent
- D. Policies under Policy-Based Management

Answer: C

Question No: 11 DRAG DROP - (Topic 1)

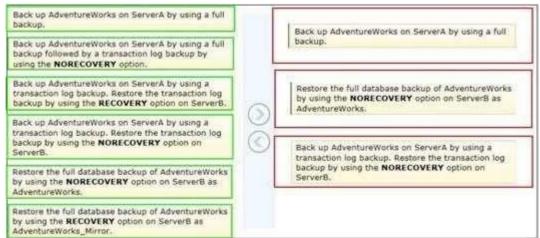
You administer two Microsoft SQL Server 2016 servers named ServerA and ServerB. You use a database named AdventureWorks.

You need to prepare the AdventureWorks database for database mirroring. ServerB will act as the mirror in a mirroring partnership along with ServerA.

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:



Question No: 12 - (Topic 1)

You are the lead database administrator (DBA) of a Microsoft SQL Server 2016 environment.

All DBAs are members of the DOMAIN\JrDBAs Active Directory group. You grant DOMAIN\JrDBAs access to the SQL Server.

You need to create a server role named SpecialDBARole that can perform the following functions:

- → View all databases.
- ⇒ View the server state.
- → Assign GRANT, DENY, and REVOKE permissions on logins.

You need to add DOMAIN\JrDBAs to the server role. You also need to provide the least level of privileges necessary.

Which SQL statement or statements should you use? Choose all that apply.

- A. CREATE SERVER ROLE [SpecialDBARole] AUTHORIZATION setupadmin;
- B. ALTER SERVER ROLE [SpecialDBARole] ADD MEMBER [DOMAIN\JrDBAs];
- C. CREATE SERVER ROLE [SpecialDBARole] AUTHORIZATION securityadmin;
- **D.** GRANT VIEW DEFINITION TO [SpecialDBARole];
- E. CREATE SERVER ROLE [SpecialDBARole] AUTHORIZATION serveradmin;
- F. GRANT VIEW SERVER STATE, VIEW ANY DATABASE TO [SpecialDBARole];

Answer: B,C,F

Question No: 13 - (Topic 1)

You administer all the deployments of Microsoft SQL Server 2016 in your company.

You need to ensure that an OLTP database that uses a storage area network (SAN) remains available if any of the servers fail.

You also need to minimize the amount of storage used by the database.

Which configuration should you use?

A.

- Two servers configured in different data centers
- SQL Server Availability Group configured in Synchronous-Commit Availability Mode
 One server configured as an Active Secondary
- R
- SQL Server that includes an application database configured to perform transactionalreplication
- C.
- Two servers configured in the same data center
- SQL Server Availability Group configured in Asynchronous-Commit Availability Mode
 One server configured as an Active Secondary
- D.
- Two servers configured in different data centers

- SQL Server Availability Group configured in Asynchronous-Commit Availability Mode
- E.
- Two servers configured in the same data center
- A primary server configured to perform log-shipping every 10 minutes
 A backup server configured as a warm standby

F.

- Two servers configured on the same subnet
- SQL Server Availability Group configured in Synchronous-Commit Availability Mode
- G.

•

SQL Server that includes an application database configured to perform snapshot replication

- H.
- Two servers configured in a Windows Failover Cluster in the same data center
 SQL Server configured as a clustered instance

Answer: H

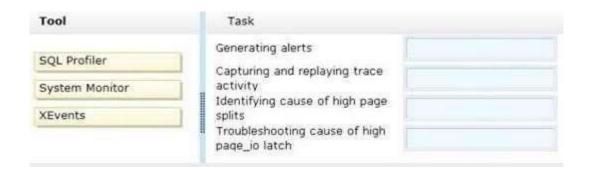
Question No: 14 DRAG DROP - (Topic 1)

You administer a Microsoft SQL Server database that is used by an application.

Users of the application report performance issues.

You need to choose the appropriate tool for performance-tuning of SQL Server databases.

Which tool or tools should you use? (To answer, drag the appropriate tool or tools to their corresponding task or tasks in the answer area. Each tool 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.)



Answer:

Tool	Task	
SQL Profiler	Generating alerts	System Monitor
System Monitor	Capturing and replaying trace activity	SQL Profiler
DOMEST - William	Identifying cause of high page	XEvents
XEvents	splits Troubleshooting cause of high	XEvents
	page_io latch	VEAGUE

Explanation:

Generating alerts	System Monitor
Capturing and replaying trace activity	SQL Profiler
Identifying cause of high page splits	XEvents
Troubleshooting cause of high page_io latch	XEvents

References:

http://msdn.microsoft.com/en-us/library/bb630282.aspx http://msdn.microsoft.com/en-us/library/ms191246.aspx http://msdn.microsoft.com/en-us/library/ms181091.aspx

Question No: 15 - (Topic 1)

You administer a Microsoft SQL Server 2016 server. The MSSQLSERVER service uses a domain account named CONTOSO\SQLService.

You plan to configure Instant File Initialization.

You need to ensure that Data File Autogrow operations use Instant File Initialization.

What should you do? Choose all that apply.

- **A.** Restart the SQL Server Agent Service.
- **B.** Disable snapshot isolation.
- **C.** Restart the SQL Server Service.
- **D.** Add the CONTOSO\SQLService account to the Perform Volume Maintenance Tasks local security policy.
- **E.** Add the CONTOSO\SQLService account to the Server Operators fixed server role.
- **F.** Enable snapshot isolation.

Answer: C,D

Explanation:

References: http://msdn.microsoft.com/en-us/library/ms175935.aspx http://www.mssqltips.com/sqlservertip/2752/effect-of-instant-file-initializationwithinsqlserver/

How To Enable Instant File Initialization

1. Open Local Security Policy and go to Local Policies --> User Rights Assignment.



- Double click Perform Volume Maintenance Tasks and add your SQL Server databaseengine service account.
- 3. Restart the SQL Server service using SQL Server Configuration Manager and thissetting should now be enabled.

Question No : 16 - (Topic 1)

You administer a Microsoft SQL Server 2016 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:

Database	Description
Transactional database	Recovery model: • Full Backup schedule: • Full database backup: midnight, daily • Differential database backup: on the hour, every two hours starting at 02:00 hours except at 00:00 hours • Log backup: every half hour, except at the times of full and differential backups
Reporting database	Recovery model: • Simple Backup schedule: • Full database backup: 01:00 hours daily
	Differential database backup: 13:00 hours daily Data updates: Changes in data are updated from the
	transactional database to the reporting database at 00:30 hours and at 12:30 hours • The update takes 15 minutes

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.** Perform a point-in-time restore.
- **E.** Restore the latest full backup.
- **F.** Perform a page restore.
- **G.** 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.
- **H.** Restore the latest full backup. Then, restore the latest differential backup.

Answer: H

Question No : 17 - (Topic 1)

You administer a Microsoft SQL Server 2016 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

Question No : 18 - (Topic 1)

You administer a Microsoft SQL Server 2016 database.

You provide temporary securityadmin access to User1 to the database server.

You need to know if User1 adds logins to securityadmin.

Which server-level audit action group should you use?

- A. SERVER_STATE_CHANGE_GROUP
- B. SERVER_PRINCIPAL_IMPERSONATION_GROUP
- C. SUCCESSFUL_LOGIN_GROUP

D. SERVER_ROLE_MEMBER_CHANGE_GROUP

Answer: D Reference:

http://technet.microsoft.com/en-us/library/cc280663.aspx SERVER_STATE_CHANGE_GROUP

This event is raised when the SQL Server service state is modified. Equivalent to the Audit Server Starts and Stops Event Class.

SERVER_PRINCIPAL_IMPERSONATION_GROUP

This event is raised when there is an impersonation within server scope, such as EXECUTE AS <login>.

Equivalent to the Audit Server Principal Impersonation Event Class.

SUCCESSFUL_LOGIN_GROUP Indicates that a principal has successfully logged in to SQL Server. Events in this class are raised by new connections or by connections that are reused from a connection pool. Equivalent to the Audit Login Event Class.

SERVER_ROLE_MEMBER_CHANGE_GROUP

This event is raised whenever a login is added or removed from a fixed server role. This event is raised for the sp_addsrvrolemember and sp_dropsrvrolemember stored procedures. Equivalent to the Audit Add Login to Server Role Event Class.

Question No : 19 HOTSPOT - (Topic 1)

You administer a Microsoft SQL Server 2016 database.

The database contains a table that has the following definition:

```
CREATE TABLE [Sales].[Customer](
  [CustomerID] int NOT NULL,
  [CustomerName] nvarchar(50) NOT NULL,
  [TerritoryID] int NULL,
  [LastContactDate] datetimeoffset NULL,
  [CustomerType] nchar(1) NOT NULL,
  [Notes] varchar(250) NULL
)
```

You want to export data from the table to a flat file by using the SQL Server Import and Export Wizard.

You need to ensure that the following requirements are met:

- → The first row of the file contains the first row of data.
- ⇒ Each record is of the same length.
- → The date follows the U.S. date format.
- → The file supports international characters.

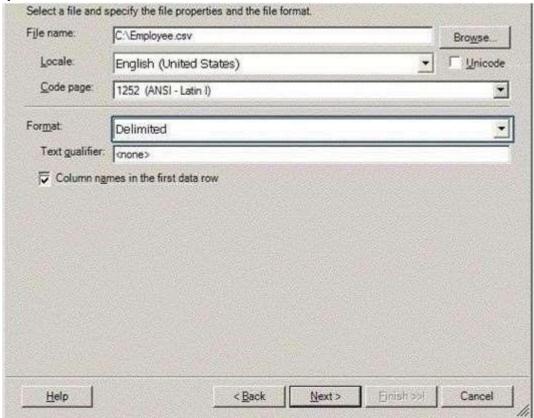
What should you do? (To answer, configure the appropriate option or options in the dialog box in the answer area.)



Answer:



Explanation:



References: http://msdn.microsoft.com/en-us/library/ms178804.aspx http://msdn.microsoft.com/en-

Question No : 20 - (Topic 1)

You administer a Microsoft SQL Server 2016 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:

Database	Description
Transactional database	Recovery model: • Full
	Backup schedule:
	 Full database backup: midnight, daily Differential database backup: on the hour, every two hours starting at 02:00 hours except at 00:00 hours Log backup: every half hour, except at the times of full and differential backups
Reporting database	Recovery model:
	Simple
	Backup schedule:
	 Full database backup: 01:00 hours daily Differential database backup: 13:00 hours daily
	Data updates:
	 Changes in data are updated from the transactional database to the reporting database at 00:30 hours and at 12:30 hours The update takes 15 minutes

The differential backup of the reporting database fails. Then, the reporting database fails at 14:00 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, and restore the latest differential backup. Then, restore the latest log backup.
- **B.** Perform a point-in-time restore.
- **C.** Restore the latest full backup.
- **D.** 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.
- **E.** Restore the latest full backup. Then, restore the latest differential backup.
- **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 page restore. **H.** Perform a partial restore.

Answer: C

Question No: 21 - (Topic 1)

You are migrating a database named Orders to a new server that runs Microsoft SQL Server 2016.

You attempt to add the [Corpnet\User1] login to the database. However, you receive the following error message:

"User already exists in current database."

You need to configure the [Corpnet\User1] login to be able to access the Orders database and retain the original permissions. You need to achieve this goal by using the minimum required permissions.

Which Transact-SQL statement should you use?

A. DROP USER [User1]; CREATE USER [Corpnet\User1] FOR LOGIN [Corpnet\User1]; ALTER ROLE [db_owner] ADD MEM3ER [Corpnet\User1];

- B. ALTER SERVER RCLS Isysadmin] ADD MEMBER [Corpnet\User1];
- C. ALTER USER [Corpnet\User1] WITH LOGIN [Corpnet\User1];
- D. ALTER ROLE [db owner] ADD MEMBBR [Corpnet\User1]; Answer: C Reference:

http://msdn.microsoft.com/en-us/library/ms176060.aspx

Question No : 22 - (Topic 1)

You administer a Microsoft SQL Server 2016 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:

Database	Description
Transactional database	Recovery model: • Full
	Backup schedule:
	 Full database backup: midnight, daily Differential database backup: on the hour, every two hours starting at 02:00 hours except at 00:00 hours Log backup: every half hour, except at the times of full and differential backups
Reporting database	Recovery model:
	Simple
	Backup schedule:
	 Full database backup: 01:00 hours daily Differential database backup: 13:00 hours daily
	Data updates:
	 Changes in data are updated from the transactional database to the reporting database at 00:30 hours and at 12:30 hours The update takes 15 minutes

At 16:20 hours, you discover that pages 17, 137, and 205 on one of the database files are corrupted on the transactional database.

You need to ensure that the transactional database is 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.** Perform a point-in-time restore.
- **D.** Restore the latest full backup.
- **E.** Restore the latest full backup, and restore the latest differential backup. Then, restore the latest log backup.
- **F.** Perform a page restore.
- **G.** Restore the latest full backup. Then, restore each differential backup taken before the time of failure from the most recent full backup.
- **H.** Restore the latest full backup. Then, restore the latest differential backup.

Answer: F Explanation:

Requirements for Restoring Pages

A page restore is subject to the following requirements:

- The databases must be using the full or bulk-logged recovery model. Some issues exist if you are using the bulk-logged model. For more information, see the following section.
- ⇒ Pages in read-only filegroups cannot be restored. Trying to make a filegroup readonly will fail if there is a page restore going on at the same time in the filegroup.
 - → The restore sequence must start with a full, file, or filegroup backup.
 - A page restore requires an unbroken chain of log backups up to the current log file, and they must all be applied so that the page is brought up to date with the current log file.
 - → As in a file-restore sequence, in each restore step, you can add more pages to the roll forward set.
 - → A database backup and page restore cannot be run at the same time.

Bulk-logged Recovery Model and Page Restore

For a database that uses the bulk-logged recovery model, page restore has the following additional conditions:

- ⇒ Backing up while filegroup or page data is offline is problematic for bulk-logged data, because the offline data is not recorded in the log. Any offline page can prevent backing up the log. In this cases, consider using
- ⇒ DBCC REPAIR, because this might cause less data loss than restoring to the most recent backup.
- ⇒ If a log backup of a bulk-logged database encounters a bad page, it fails unless WITH
- ⇒ CONTINUE_AFTER_ERROR is specified.
- ⇒ Page restore generally does not work with bulk-logged recovery.
- A best practice for performing page restore is to set the database to the full recovery model, and try a log backup. If the log backup works, you can continue with the page restore. If the log backup fails, you either have to lose work since the previous log backup or you have to try running DBCC must be run with the REPAIR_ALLOW_DATA_LOSS option.

Question No : 23 - (Topic 1)

You use a contained database named ContosoDb within a domain.

You need to create a user who can log on to the ContosoDb database. You also need to ensure that you can port the database to different database servers within the domain without additional user account configurations.

Which type of user should you create?

- **A.** User mapped to a certificate
- B. SQL user without login
- C. Domain user
- D. SQL user with login

Answer: C

Question No: 24 - (Topic 1)

You administer all the deployments of Microsoft SQL Server 2016 in your company.

You need to ensure that data changes are sent to a non-SQL Server database server in near real time.

You also need to ensure that data on the primary server is unaffected.

Which configuration should you use?

- A. SQL Server that includes an application database configured to perform transactional replication
- B. Two servers configured in different data centers
- SQL Server Availability Group configured in Asynchronous-Commit Availability Mode C.
- Two servers configured in different data centers
- SQL Server Availability Group configured in Synchronous-Commit Availability Mode
- One server configured as an Active Secondary
- **D.** SQL Server that includes an application database configured to perform snapshot replication
- E. Two servers configured in the same data center
- SQL Server Availability Group configured in Asynchronous-Commit Availability Mode
- One server configured as an Active Secondary
- **F.** Two servers configured on the same subnet
- SQL Server Availability Group configured in Synchronous-Commit Availability Mode G.
 - Two servers configured in a Windows Failover Cluster in the same data center
- SQL Server configured as a clustered instance
- H. Two servers configured in the same data center
- A primary server configured to perform log-shipping every 10 minutes
 A backup server configured as a warm standby

Answer: A Reference:

http://msdn.microsoft.com/en-us/library/ms151149.aspx

Question No : 25 - (Topic 1)

You administer a Microsoft SQL Server 2016 failover cluster that contains two nodes named Node A and Node B. A single instance of SQL Server is installed on the cluster.

An additional node named Node C has been added to the existing cluster.

You need to ensure that the SQL Server instance can use all nodes of the cluster.

What should you do?

- A. Run the New SQL Server stand-alone installation Wizard on Node C.
- B. Run the Add Node to SQL Server Failover Cluster Wizard on Node C.
- C. Use Node B to install SQL Server on Node C.
- D. Use Node A to install SQL Server on Node C.

Answer: B Reference:

http://technet.microsoft.com/en-us/library/ms191545.aspx

To add a node to an existing SQL Server failover cluster, you must run SQL Server Setup on the node that is to be added to the SQL Server failover cluster instance. Do not run Setup on the active node.

The Installation Wizard will launch the SQL Server Installation Center. To add a node to an existing failover cluster instance, click Installation in the left-hand pane. Then, select Add node to a SQL Server failover cluster.

Question No : 26 - (Topic 1)

You create an availability group named HaContoso that has replicas named Server01/HA, Server02/HA, and Server03/HA.

Currently, Server01I/HA is the primary replicA.

You need to ensure that the following requirements are met:

- ⇒ Backup operations occur on Server02/HA.
- → If Server02/HA is unavailable, backup operations occur on Server03/HA.
- ⇒ Backup operations do not occur on Server01/HA.

How should you configure HaContoso?

A.

- Set the backup preference of HaContoso to Prefer Secondary.
- Set the backup priority of Server02/HA to 20.
- Set the backup priority of Server03/HA to 10.
- B.
- Set the backup preference of HaContoso to Secondary only.
- Set the backup priority of Server02/HA to 20.
- Set the backup priority of Server03/HA to 10.
- C.
- Set the backup preference of HaContoso to Secondary only.
- Set the backup priority of Server02/HA to 10.
- Set the backup priority of Server03/HA to 20.
- D.
- Set the exclude replica of Server01/HA to true.
- Set the backup priority of Server02/HA to 10.
- Set the backup priority of Server03/HA to 20.

Answer: B Reference:

http://msdn.microsoft.com/en-us/library/ff877884.aspx

Question No : 27 - (Topic 1)

You administer a Microsoft SQL Server 2016 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.

You need to ensure that the backup size is as small as possible.

Which backup should you perform every two hours?

- A. BULK LOGGED
- B. NO_CHECKSUM
- C. FULL
- D. RESTART
- E. CHECKSUM
- F. STANDBY
- G. DBO.ONLY
- H. NORECOVERY
- I. SIMPLE
- J. SKIP
- K. Transaction log
- L. COPY ONLY
- M. Differential
- N. CONTINUE_AFTER_ERROR

Answer: K

Explanation:

References:

http://msdn.microsoft.com/en-us/library/ms186865.aspx http://msdn.microsoft.com/en-us/library/ms191429.aspx http://msdn.microsoft.com/en-us/library/ms179478.aspx **Question No: 28 - (Topic 1)**

You administer several Microsoft SQL Server 2016 database servers. Merge replication has been configured for an application that is distributed across offices throughout a wide area network (WAN).

Many of the tables involved in replication use the XML and varchar (max) data types. Occasionally, merge replication fails due to timeout errors.

You need to reduce the occurrence of these timeout errors.

What should you do?

- **A.** Set the Merge agent on the problem subscribers to use the slow link agent profile. **B.** Create a snapshot publication, and reconfigure the problem subscribers to use the snapshot publication.
- **C.** Change the Merge agent on the problem subscribers to run continuously.
- **D.** Set the Remote Connection Timeout on the Publisher to 0.

Answer: A

Explanation: Explanation/Reference:

When replication is configured, a set of agent profiles is installed on the Distributor. An agent profile contains a set of parameters that are used each time an agent runs: each agent logs in to the Distributor during its startup process and queries for the parameters in its profile.

For merge subscriptions that use Web synchronization, profiles are downloaded and stored at the Subscriber. If the profile is changed, the profile at the Subscriber is updated the next time the Merge Agent runs. For more information about Web synchronization, see Web Synchronization for Merge Replication.

Replication provides a default profile for each agent and additional predefined profiles for the

Log Reader Agent, Distribution Agent, and Merge Agent. In addition to the profiles provided, you can create profiles suited to your application requirements. An agent profile allows you to change key parameters easily for all agents associated with that profile. For example, if you have 20 Snapshot Agents and need to change the query timeout value (the - QueryTimeout parameter), you can update the profile used by the Snapshot Agents and all agents of that type will begin using the new value automatically the next time they run.

You might also have different profiles for different instances of an agent. For example, a Merge Agent that connects to the Publisher and Distributor over a dialup connection could use a set of parameters that are better suited to the slower communications link by using the slow link profile.

Question No : 29 DRAG DROP - (Topic 1)

You administer a Microsoft SQL Server 2016 environment that contains a production SQL Server 2005 instance named SQL2005 and a development SQL Server 2016 instance named SQL2012.

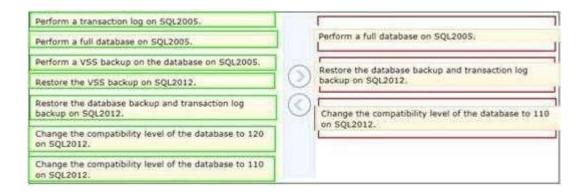
The development team develops a new application that uses the SQL Server 2016 functionality. You are planning to migrate a database from SQL2005 to SQL2012 so that the development team can test their new application.

You need to migrate the database without affecting the production environment.

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.)

Perform a transaction log on SQL2005.	
Perform a full database on SQL2005.	
Perform a VSS backup on the database on SQL2005.	
Restore the VSS backup on SQL2012.	
Restore the database backup and transaction log backup on SQL2012.	(
Change the compatibility level of the database to 120 on SQL2012.	
Change the compatibility level of the database to 110 on SQL2012.	

Answer:



Question No: 30 - (Topic 1)

You administer a Microsoft SQL Server 2016 database named ContosoDB. The database contains a table named Suppliers and a column named IsActive in the Purchases schemA.

You create a new user named ContosoUser in ContosoDB. ContosoUser has no permissions to the Suppliers table.

You need to ensure that ContosoUser can delete rows that are not active from Suppliers. You also need to grant ContosoUser only the minimum required permissions. Which Transact-SQL statement should you use?

- A. GRANT DELETE ON Purchases. Suppliers TC ContosoUser
- **B.** CREATE PROCEDURE Purchases.PurgeInactiveSuppliers WITH EXECUTE AS USER = 'dbo'

AS

DELETE FROM Purchases.Suppliers WHERE IsActive = 0 GO

GRANT EXECUTE ON Purchases. Purgelnactive Suppliers TO ContosoUser

- C. GRANT SELECT ON Purchases. Suppliers TO ContosoUser
- D. CREATE PROCEDURE Purchases. PurgeInactiveSuppliers AS

DELETE FROM Purchases.Suppliers WHERE IsActive = 0 GO

GRANT EXECUTE ON Purchases. PurgeInactiveSuppliers TO ContosoUser

Answer: D

Explanation:

References: http://msdn.microsoft.com/en-us/library/ms188354.aspx http://msdn.microsoft.com/en- us/library/ms187926.aspx

Question No: 31 - (Topic 1)

You administer a Microsoft SQL Server 2016 database.

You configure Transparent Data Encryption (TDE) on the Orders database by using the following statements:

```
CREATE MASTER KEY ENCRYPTION BY PASSMORD = 'MyPassword!';

CREATE CERTIFICATE TDE_Certificate WITH SUBJECT = 'TDE Certificate';

BACKUP CERTIFICATE TDE_Certificate TO FILE = 'd:\TDE_Certificate.cer'
WITH PRIVATE KEY (FILE = 'd:\TDE_Certificate, key', ENCRYPTION BY PASSWORD = 'MyPassword!');

CREATE DATABASE ENCRYPTION KEY
WITH ALGORITHM = AES_256
ENCRYPTION BY SERVER CERTIFICATE TDE_Certificate;

ALTER DATABASE Orders SET ENCRYPTION ON;
```

You attempt to restore the Orders database and the restore fails. You copy the encryption file to the original location.

A hardware failure occurs and so a new server must be installed and configured.

After installing SQL Server to the new server, you restore the Orders database and copy the encryption files to their original location. However, you are unable to access the database.

You need to be able to restore the database.

Which Transact-SQL statement should you use before attempting the restore?

```
CREATE ASSEMBLY TDE Assembly
FROM 'd:\TDE_Certificate.cer'
WITH PERMISSION_SET = SAFE;
GO
GREATE CERTIFICATE TDE_Certificate FROM ASSEMBLY TDE_Assembly;

C B. CREATE CERTIFICATE TDE_Certificate FROM EXECUTABLE FILE = 'd:\TDE_Certificate.cer'

C CREATE CERTIFICATE TDE_Certificate FROM FILE = 'd:\TDE_Certificate.cer'
WITH FRIVATE KEY (FILE = 'd:\TDE_Certificate.key', DECRYPTION BY PASSWORD = 'MyPasswordl'');

C D. DECLARE @startdate date
SET @startdate = GETDATE()
GREATE CERTIFICATE TDE_Certificate FROM FILE = 'd:\TDE_Certificate.cer'
WITH START_DATE = @startdate;
```

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

Answer: C

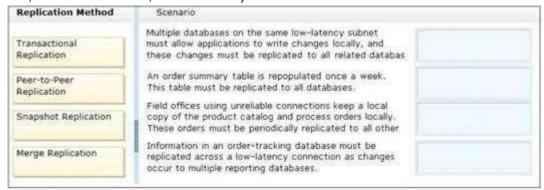
Question No: 32 DRAG DROP - (Topic 1)

You administer several Microsoft SQL Server 2016 servers. Your company has a number of offices across the world connected by using a wide area network (WAN).

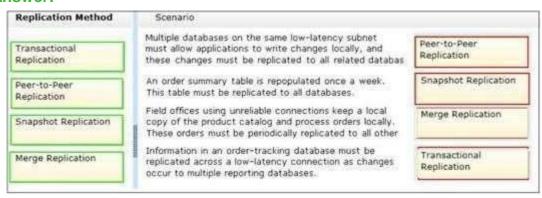
Connections between offices vary significantly in both bandwidth and reliability.

You need to identify the correct replication method for each scenario.

What should you do? (To answer, drag the appropriate replication method or methods to the correct location or locations in the answer area. Each replication method may be used once, more than once, or not at all.)



Answer:



Question No : 33 - (Topic 1)

You administer a Microsoft SQL Server 2016 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.

You need to ensure that the minimum amount of data is lost.

Which recovery model should the database use?

- A. FULL
- B. DBO_ONLY
- C. CONTINUE_AFTER_ERROR
- D. CHECKSUM
- E. NO_CHECKSUM
- **F.** SIMPLE
- G. Transaction log

- H. SKIP
- I. RESTART
- J. COPY_ONLY
- K. NORECOVERY
- L. BULK_LOGGED
- M. Differential
- N. STANDBY

Answer: A

Question No : 34 DRAG DROP - (Topic 1)

You administer a Microsoft SQL Server 2016 database.

All database traffic to the SQL Server must be encrypted by using secure socket layer (SSL) certificates or the connection must be refused.

Network administrators have deployed server certificates to the Windows store of all Windows servers on the network from a trusted Certificate Authority. This is the only Certificate Authority allowed to distribute certificates on the network.

You enable the Force Encryption flag for the MSSQLServer protocols, but client computers are unable to connect. They receive the following error message:

"A connection was successfully established with the server, but then an error occurred during the pre-login handshake, (provider: SSL Provider, error: 0 - The certificate chain was issued by an authority that is not trusted.) (Microsoft SQL Server)"

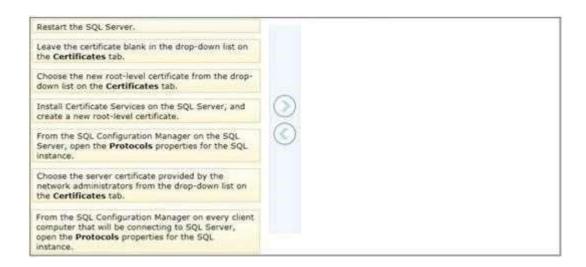
You notice the following entry in the SQL Server log:

"A self-generated certificate was successfully loaded for encryption."

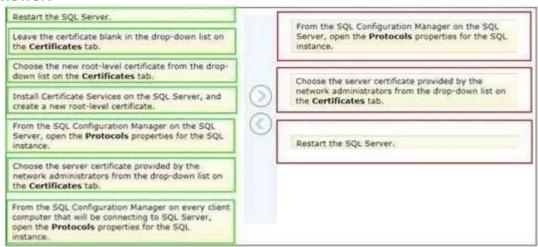
You need to configure SQL Server to encrypt all client traffic across the network.

You also need to ensure that client computers are able to connect to the server by using a trusted certificate.

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:



Question No: 35 - (Topic 1)

You administer a Microsoft SQL Server 2016 instance that has several SQL Server Agent jobs configured.

When SQL Server Agent jobs fail, the error messages returned by the job steps are truncated.

The following error message is an example of the truncated error message:

"Executed as user CONTOSO\ServiceAccount....0.4035.00 for 64-bit Copyright (C) Microsoft Corp 1984-2011. All rights reserveD. Started 63513 PM Error 2012-06-23 183536.87 Code 0XC001000E Source UserImport Description Code 0x00000000 Source Log Import Activity Descript... The package execution fA. .. The step failed. "

You need to ensure that all the details of the job step failures are retained for SQL Server Agent jobs.

What should you do?

- **A.** Expand agent logging to include information from all events.
- **B.** Disable the Limit size of job history log feature.
- **C.** Configure event forwarding.
- **D.** Configure output files.

Answer: D

Question No: 36 - (Topic 1)

You administer a Microsoft SQL Server 2016 database that has Trustworthy set to On. You create a stored procedure that returns database-level information from Dynamic Management Views.

You grant User1 access to execute the stored procedure.

You need to ensure that the stored procedure returns the required information when User1 executes the stored procedure. You need to achieve this goal by granting the minimum permissions required.

What should you do? (Each correct answer presents a complete solution. Choose all that apply.)

- **A.** Create a SQL Server login that has VIEW SERVER STATE permissions. Create an application role and a secured password for the role.
- B. Modify the stored procedure to include the EXECUTE AS OWNER statement.
 Grant VIEW SERVER STATE permissions to the owner of the stored procedure.
 C. Create a SQL Server login that has VIEW SERVER STATE permissions.

Modify the stored procedure to include the EXECUTE AS {newlogin} statement.

- **D.** Grant the db owner role on the database to User1.
- **E.** Grant the sysadmin role on the database to User1.

Answer: B,C

Explanation:

According to these references, this answer looks correct.

References: http://msdn.microsoft.com/en-us/library/ms187861.aspx http://msdn.microsoft.com/en-us/library/ms191291.aspx

Question No: 37 - (Topic 1)

You administer a single server that contains a Microsoft SQL Server 2016 default instance.

You plan to install a new application that requires the deployment of a database on the server. The application login requires sysadmin permissions.

You need to ensure that the application login is unable to access other production databases.

What should you do?

- **A.** Use the SQL Server default instance and configure an affinity mask.
- **B.** Install a new named SQL Server instance on the server.
- **C.** Use the SQL Server default instance and enable Contained Databases.
- **D.** Install a new default SQL Server instance on the server.

Answer: B

Question No : 38 - (Topic 1)

You administer a Microsoft SQL Server 2016 instance. After a routine shutdown, the drive that contains tempdb fails.

You need to be able to start the SQL Server.

What should you do?

- **A.** Modify tempdb location in startup parameters.
- **B.** Start SQL Server in minimal configuration mode.
- **C.** Start SQL Server in single-user mode.
- D. Configure SQL Server to bypass Windows application logging.

Answer: B

Explanation:

References: http://msdn.microsoft.com/en-us/library/ms186400.aspx http://msdn.microsoft.com/en-us/library/ms345408.aspx

Question No: 39 - (Topic 1)

You administer a Microsoft SQL Server 2016 database. The database has a table named Customers owned by UserA and another table named Orders owned by UserB. You also have a stored procedure named GetCustomerOrderInfo owned by UserB. GetCustomerOrderInfo selects data from both tables.

You create a new user named UserC.

You need to ensure that UserC can call the GetCustomerOrderInfo stored procedure. You also need to assign only the minimum required permissions to UserC.

Which permission or permissions should you assign to UserC? Choose all that apply.

- A. The Select permission on Customers
- **B.** The Execute permission on GetCustomerOrderInfo
- **C.** The Take Ownership permission on Customers
- **D.** The Control permission on GetCustomerOrderInfo
- E. The Take Ownership permission on Orders
- F. The Select permission on Orders

Answer: A,B

Explanation:

References: http://msdn.microsoft.com/en-us/library/ms188676.aspx http://stackoverflow.com/questions/2212044/sql-server-how-to-permission-schemas http://sqlservercentral.com/blogs/steve_jones/2012/03/14/ownership-chains-in-sqlserver

Question No: 40 - (Topic 1)

You administer all the deployments of Microsoft SQL Server 2016 in your company.

A database contains a large product catalog that is updated periodically.

You need to be able to send the entire product catalog to all branch offices on a monthly basis.

Which configuration should you use?

Α.

- Two servers configured in the same data center
- A primary server configured to perform log-shipping every 10 minutes
- A backup server configured as a warm standby
- B.
- SQL Server that includes an application database configured to perform transactional replication
- C.
- Two servers configured in the same data center
- SQL Server Availability Group configured in Asynchronous-Commit Availability Mode
 One server configured as an Active Secondary D.
- Two servers configured in a Windows Failover Cluster in the same data center
 SQL
 Server configured as a clustered instance
- E.
- SQL Server that includes an application database configured to perform snapshot replication
- F.
- Two servers configured in different data centers
- SQL Server Availability Group configured in Synchronous-Commit Availability Mode One server configured as an Active Secondary **G**.

- Two servers configured on the same subnet
- SQL Server Availability Group configured in Synchronous-Commit Availability Mode G.
- Two servers configured in different data centers
- SQL Server Availability Group configured in Asynchronous-Commit Availability Mode

Answer: E

Question No: 41 - (Topic 1)

You administer a Microsoft SQL Server 2016 instance.

You need to stop a blocking process that has an SPID of 64 without stopping other processes

What should you do?

A. Execute the following Transact-SQL statement:

EXECUTE sp_KillSPID 64 B.

Restart the SQL Server service.

- C. Execute the following Transact-SQL statement: KILL 64
- **D.** Execute the following Transact-SQL statement:

ALTER SESSION KILL '64'

Answer: C

Reference:

http://msdn.microsoft.com/en-us/library/ms173730.aspx

Question No: 42 DRAG DROP - (Topic 1)

You administer a single Microsoft SQL Server instance on a two-node failover cluster that has nodes named Node A and Node B. The instance is currently running on Node A.

You want to patch both Node A and Node B by using the most recent SQL Server Service Pack.

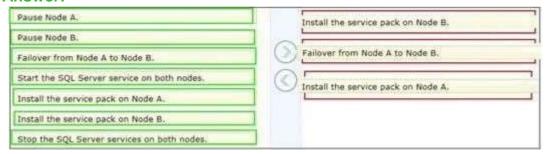
You need to ensure that the following requirements are met:

- ⇒ Both nodes receive the update.
- ⇒ Downtime is minimized.
- → No data is lost.

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:



Question No: 43 DRAG DROP - (Topic 1)

You administer a Microsoft SQL Server 2016 database.

You use an OrderDetail table that has the following definition:

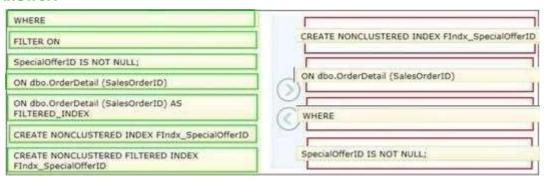
```
CREATE TABLE [dbo].[OrderDetail]
 ([SalesOrderID] [int] NOT NULL,
  [SalesOrderDetailID] [int] IDENTITY(1,1) NOT NULL,
  [CarrierTrackingNumber] [nvarchar](25) NULL,
  [OrderQty] [smallint] NOT NULL,
  [ProductID] [int] NOT NULL,
  [SpecialOfferID] [int] NULL,
  [UnitPrice] [money] NOT NULL);
```

You need to create a non-clustered index on the SalesOrderID column in the OrderDetail table to include only rows that contain a value in the SpecialOfferID column.

Which four Transact-SQL statements should you use? (To answer, move the appropriate statements from the list of statements to the answer area and arrange them in the correct order.)



Answer:



Explanation:



According to these references, this answer looks correct.

References: http://msdn.microsoft.com/en-us/library/ms188783.aspx http://msdn.microsoft.com/en- us/library/ms189280.aspx

Question No: 44 - (Topic 1)

You administer a Microsoft SQL Server 2016 server that has SQL Server Integration Services (SSIS) installed.

You plan to deploy new SSIS packages to the server. The SSIS packages use the Project Deployment Model together with parameters and Integration Services environment variables.

You need to configure the SQL Server environment to support these packages.

What should you do?

- **A.** Create SSIS configuration files for the packages.
- **B.** Create an Integration Services catalog.
- C. Install Data Quality Services.
- D. Install Master Data services.

Answer: B

Question No: 45 - (Topic 1)

You administer a Microsoft SQL Server 2016 database.

You need to ensure that the size of the transaction log file does not exceed 2 GB.

What should you do?

- A. Execute sp_configure 'max log size', 2G.
- **B.** use the ALTER DATABASE...SET LOGFILE command along with the maxsize parameter.
- **C.** In SQL Server Management Studio, right-click the instance and select Database Settings. Set the maximum size of the file for the transaction log.
- **D.** in SQL Server Management Studio, right-click the database, select Properties, and then click Files. Open the Transaction log Autogrowth window and set the maximum size of the file.

Answer: D

Question No : 46 - (Topic 1)

You administer a Microsoft SQL Server 2016 server. One of the databases on the server supports a highly active OLTP application.

Users report abnormally long wait times when they submit data into the application.

You need to identify which queries are taking longer than 1 second to run over an extended period of time.

What should you do?

- **A.** use SQL Profiler to trace all queries that are processing on the server. Filter queries that have a Duration value of more than 1,000.
- **B.** Use sp_configure to set a value for blocked process threshold. Create an extended event session.

- **C.** Use the Job Activity monitor to review all processes that are actively running. Review the Job History to find out the duration of each step. **D.** Run the sp_who command from a query window.
- **E.** Run the DBCC TRACEON 1222 command from a query window and review the SQL Server event log.

Answer: A

Explanation:

References: http://www.mssqltips.com/sqlservertip/2130/finding-sql-server-deadlocksusing-trace-flag-

1222/ http://msdn.microsoft.com/enus/library/ms188396.aspx

Question No: 47 - (Topic 1)

You administer a Microsoft SQL Server 2016 database that has multiple tables in the Sales schema.

Some users must be prevented from deleting records in any of the tables in the Sales schema.

You need to manage users who are prevented from deleting records in the Sales schema. You need to achieve this goal by using the minimum amount of administrative effort.

What should you do?

- **A.** Create a custom database role that includes the users. Deny Delete permissions on the Sales schema for the custom database role.
- **B.** Include the Sales schema as an owned schema for the db_denydatawriter role. Add the users to the db_denydatawriter role.
- **C.** Deny Delete permissions on each table in the Sales schema for each user.
- **D.** Create a custom database role that includes the users. Deny Delete permissions on each table in the Sales schema for the custom database role.

Answer: A

Question No : 48 - (Topic 1)

You administer a Microsoft SQL Server 2016 Enterprise Edition server that uses 64 cores.

You discover performance issues when large amounts of data are written to tables under heavy system load.

You need to limit the number of cores that handle I/O.

What should you configure?

- A. Processor affinity
- B. Lightweight pooling
- C. Max worker threads
- **D.** I/O affinity

Answer: D Reference:

http://msdn.microsoft.com/en-us/library/ms189629.aspx

Question No : 49 - (Topic 1)

You administer a Microsoft SQL Server 2016 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:

Database	Description
Transactional database	Recovery model: • Full Backup schedule: • Full database backup: midnight, daily • Differential database backup: on the hour, every two hours starting at 02:00 hours except at 00:00 hours • Log backup: every half hour, except at the times of full and differential backups
Reporting database	Recovery model: • Simple Backup schedule: • Full database backup: 01:00 hours daily • Differential database backup: 13:00 hours daily
	Changes in data are updated from the transactional database to the reporting database at 00:30 hours and at 12:30 hours The update takes 15 minutes

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 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

Explanation:

Restores a file or filegroup in a multi-filegroup database. Note that under the simple recovery model, the file must belong to a read-only filegroup. After a full file restore, a differential file backup can be restored.

Page restore

Restores individual pages. Page restore is available only under the full and bulk-logged recovery models.

Piecemeal restore

Restores the database in stages, beginning with the primary filegroup and one or more secondary filegroups. A piecemeal restore begins with a RESTORE DATABASE using the PARTIAL option and specifying one or more secondary filegroups to be restored.

Question No: 50 - (Topic 1)

You administer a Microsoft SQL Server 2016 database.

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 Reference: http://msdn.microsoft.c om/en-

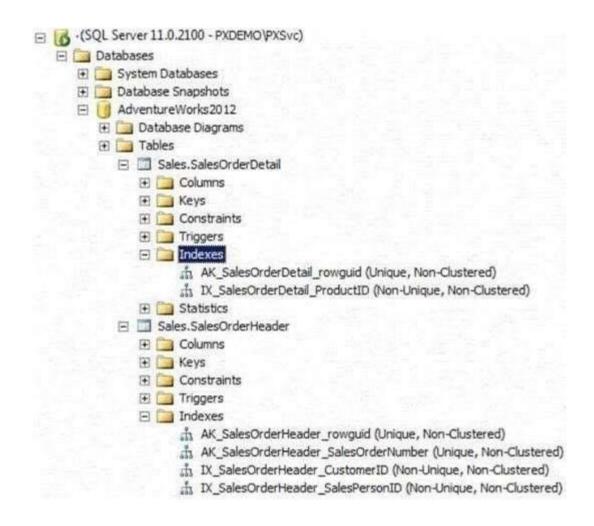
us/library/bb630282.a spx

Event sqlserver.error_reported: This event gets fired every time that an error happens in the server

Topic 2, Volume B

Question No : 51 - (Topic 2)

You use a Microsoft SQL Server 2016 database that contains two tables named SalesOrderHeader and SalesOrderDetail. The indexes on the tables are as shown in the exhibit. (Click the Exhibit button.)



You write the following Transact-SQL query:

```
SELECT h.SalesOrderID, h.TotalDue, d.OrderQty
FROM Sales.SalesOrderHeader AS h
INNER JOIN Sales.SalesOrderDetail AS d
ON h.SalesOrderID = d.SalesOrderID
WHERE h.TotalDue > 100
AND (d.OrderQty > 5 OR d.LineTotal < 1000.00);
```

You discover that the performance of the query is slow. Analysis of the query plan shows table scans where the estimated rows do not match the actual rows for SalesOrderHeader by using an unexpected index on SalesOrderDetail.

You need to improve the performance of the query.

What should you do?

- **A.** Use a FORCESCAN hint in the query.
- **B.** Add a clustered index on SalesOrderld in SalesOrderHeader.
- **C.** Use a FORCESEEK hint in the query.
- **D.** Update statistics on SalesOrderld on both tables.

Answer: D Reference:

http://msdn.microsoft.com/en-us/library/ms187348.aspx

Question No : 52 - (Topic 2)

You administer a Microsoft SQL Server 2016 database named Contoso on a server named Server01.

You need to diagnose deadlocks that happen when executing a specific set of stored procedures by recording events and playing them back on a different test server.

What should you create?

- A. An Extended Event session
- B. A Policy
- C. A Database Audit Specification
- D. An Alert
- E. A Server Audit Specification
- F. A SQL Profiler Trace
- G. A Resource Pool

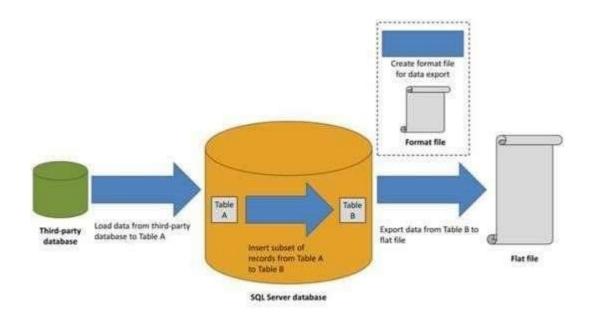
Answer: F

Reference: http://msdn.microsoft.com/en-us/library/ms188246.aspx

Question No: 53 DRAG DROP - (Topic 2)

You administer a Microsoft SQL Server 2016 database. The database contains two tables named Table A and Table B.

You perform an import and export operation by using the following steps in sequence, as shown in the exhibit. (Click the Exhibit button.)



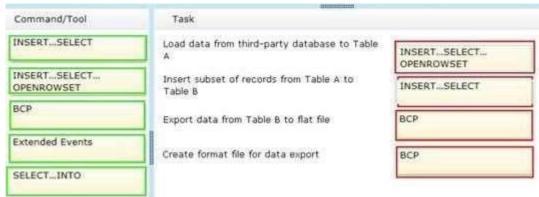
Load data from a third-party database to Table A. Insert a subset of records from Table A to Table B. Export the data from Table B to a flat file.

You also create a format file for the data export.

You need to choose the correct command or tool for each task. You need to ensure that each task is performed efficiently.

Which command(s) or tool(s) should you use? (To answer, drag the appropriate command(s) or tool(s) to their corresponding task or tasks in the answer area. Answer choices may be used once, more than once, or not at all. Answer targets may be used once or not at all. Additionally, you may need to drag the split bar between panes or scroll to view content.)

Answer:



Question No: 54 - (Topic 2)

You administer a SQL 2012 server that contains a database named SalesDB. SalesDb contains a schema named Customers that has a table named Regions. A user named UserA is a member of a role named Sales.

UserA is granted the Select permission on the Regions table. The Sales role is granted the Select permission on the Customers schema.

You need to remove the Select permission for UserA on the Regions table. You also need to ensure that UserA can still access all the tables in the Customers schema, including the Regions table, through the Sales role permissions.

Which Transact-SQL statement should you use?

- A. DENY SELECT ON Object::Regions FROM UserA
- B. DENY SELECT ON Schema::Customers FROM UserA
- C. EXEC sp addrolemember 'Sales', 'UserA'
- D. REVOKE SELECT ON Object::Regions FROM UserA
- E. REVOKE SELECT ON Object::Regions FROM Sales
- **F.** EXEC sp_droproiemember 'Sales', 'UserA'
- G. REVOKE SELECT ON Schema::Customers FROM UserA
- H. DENY SELECT ON Object::Regions FROM Sales
- I. DENY SELECT ON Schema::Customers FROM Sales
- J. REVOKE SELECT ON Schema::Customers FROM Sales

Answer: D

Explanation:

References: http://msdn.microsoft.com/en-us/library/ms188369.aspx http://msdn.microsoft.com/en-

us/library/ms187750.aspx http://msdn.microsoft.com/en-us/library/ff848791.aspx

Question No: 55 - (Topic 2)

You administer a Microsoft SQL Server 2016.

A process that normally runs in less than 10 seconds has been running for more than an hour.

You examine the application log and discover that the process is using session ID 60.

You need to find out whether the process is being blocked.

Which Transact-SQL statement should you use?

- A. EXEC sp_who 60
- **B.** SELECT * FROM sys.dm_exec_sessions WHERE sessionid = 60
- C. EXEC sp_helpdb 60
- **D.** DBCC INPUTBUFFER (60)

Answer: A

Explanation:

References: http://msdn.microsoft.com/en-us/library/ms174313.aspx http://msdn.microsoft.com/en-us/library/ms176013.aspx http://msdn.microsoft.com/en-us/library/ms178568.aspx http://msdn.microsoft.com/en-us/library/ms187730.aspx

Question No: 56 HOTSPOT - (Topic 2)

You administer two Microsoft SQL Server 2016 databases named Contoso and ContosoWarehouse.

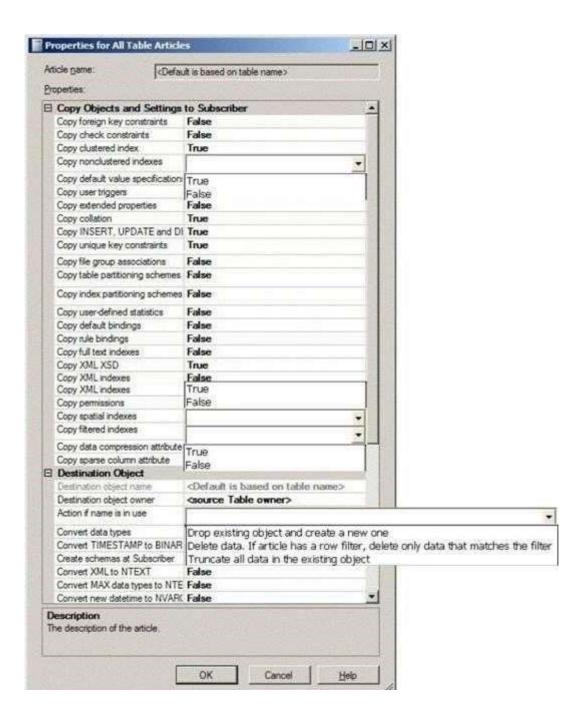
You plan to replicate tables from the Contoso database to the ContosoWarehouse database.

Indexes will be added to the tables in ContosoWarehouse to improve the performance of reports.

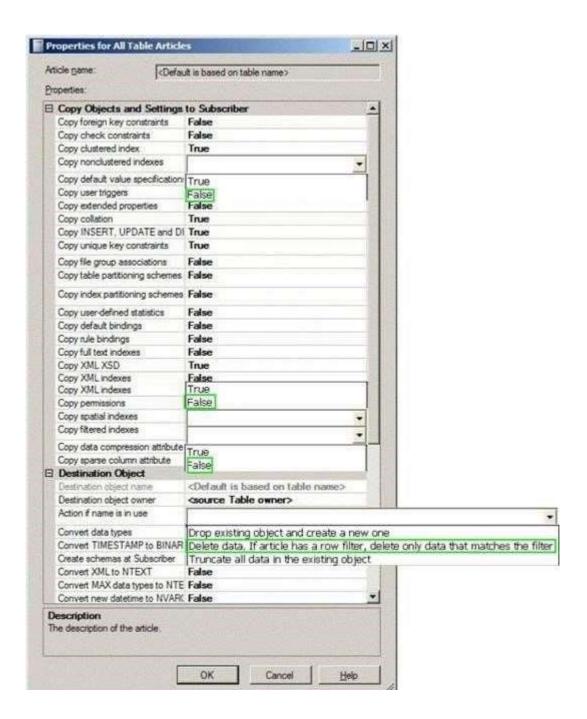
You need to ensure that the following requirements are met:

- □ Indexes are not modified when the subscriptions are reinitialized.
- Only the clustered index from Contoso will be replicated.
- → Minimal transaction log activity during the reinitialization.

What should you do? Choose the correct option(s).



Answer:



Question No: 57 - (Topic 2)

You administer a Microsoft SQL Server 2016 environment. One of the SQL Server 2016 instances contains a database named Sales.

You plan to migrate Sales to Windows Azure SQL Database.

To do so, you need to implement a contained database.

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

- A. Set database containment to AZURE.
- **B.** Enable server property contained database authentication.
- **C.** Disable server property cross db ownership chaining.
- D. Set database containment to PARTIAL.
- **E.** Disable server property contained database authentication.
- **F.** Set database containment to FULL.

Answer: B,D

Question No : 58 - (Topic 2)

You develop a database for a travel application. You need to design tables and other database objects. You create a view that displays the dates and times of the airline schedules on a report.

You need to display dates and times in several international formats.

What should you do?

- A. Use the CAST function.
- **B.** Use the DATE data type.
- **C.** Use the FORMAT function.
- **D.** Use an appropriate collation.
- **E.** Use a user-defined table type.
- **F.** Use the VARBINARY data type.
- **G.** Use the DATETIME data type.
- **H.** Use the DATETIME2 data type.
- **I.** Use the DATETIMEOFFSET data type.
- **J.** Use the TODATETIMEOFFSET function.

Answer: C

Reference: http://msdn.microsoft.com/en-us/library/hh213505.aspx

Question No: 59 - (Topic 2)

You have been hired as a Database Consultant by ABC.com to design a SQL Server 2016 database solution.

You are tasked with designing a scale-out and high-availability SQL Server 2016 Online

Transaction Processing (OLTP) database solution that will maintain copies of data across two server instances.

Your solution must provide scale-out of read operations by distributing the reads from clients across two SQL Server 2016 nodes. The data in both SQL Server nodes needs to be indexed.

What should you include in your solution?

- **A.** You should include a primary database with scheduled log shipping to the secondary database configured.
- **B.** You should include two servers configured in an Active-Passive SQL Server 2016 Cluster.
- **C.** You should include a primary SQL Server 2016 database that uses transactional replication to replicate data to the secondary database.
- **D.** You should include two servers in an Asynchronous-Commit Availability Mode Availability Group.
- **E.** You should include two servers in a Synchronous-Commit Availability Mode Availability Group.

Answer: C

Question No : 60 - (Topic 2)

Which of the following recovery models must be in use for point-in-time recovery to be possible for an SQL Server 2016 database?

- A. Differential
- B. Full
- C. Simple

D. ArchiveLog

Answer: B

Explanation: References:

https://msdn.microsoft.com/en-us/library/ms189275%28v=sql.110%29.aspx

Question No: 61 - (Topic 2)

Which of the following Microsoft SQL Server 2016 components is responsible for executing scheduled administrative tasks?

- A. SQL Server Instance
- B. SQL Server Jobs File
- C. SQL Server Agent
- D. SQL Server SSIS

Answer: C

Explanation: References:

https://msdn.microsoft.com/en-us/library/ms189237%28v=sql.110%29.aspx

Question No: 62 - (Topic 2)

You are developing a database application by using Microsoft SQL Server 2016. You have a query that runs slower than expected.

You need to capture execution plans that will include detailed information on missing indexes recommended by the query optimizer.

What should you do?

- **A.** Add a HASH hint to the query.
- **B.** Add a LOOP hint to the query.
- **C.** Add a FORCESEEK hint to the query.

- **D.** Add an INCLUDE clause to the index.
- **E.** Add a FORCESCAN hint to the Attach query.
- **F.** Add a columnstore index to cover the query.
- **G.** Enable the optimize for ad hoc workloads option.
- **H.** Cover the unique clustered index with a columnstore index.
- I. Include a SET FORCEPLAN ON statement before you run the query.
- J. Include a SET STATISTICS PROFILE ON statement before you run the query.
- K. Include a SET STATISTICS SHOWPLAN_XML ON statement before you run the query.
 L. Include a SET TRANSACTION ISOLATION LEVEL REPEATABLE READ statement before you run the query.
- **M.** Include a SET TRANSACTION ISOLATION LEVEL SNAPSHOT statement before you run the query.
- **N.** Include a SET TRANSACTION ISOLATION LEVEL SERIALIZABLE statement before you run the query.

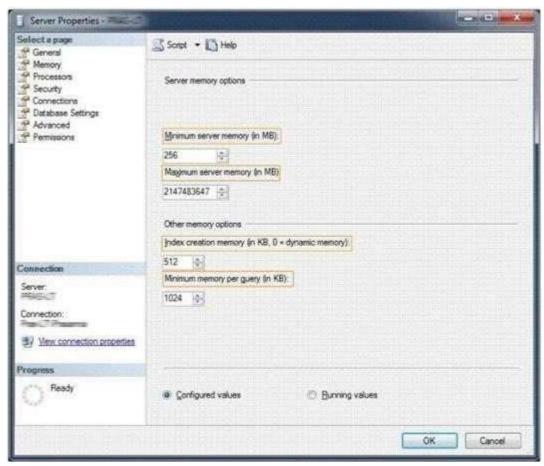
Answer: K

Question No : 63 HOTSPOT - (Topic 2)

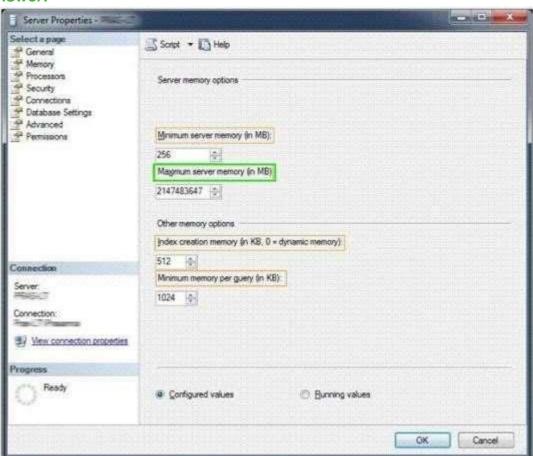
You administer a Microsoft SQL Server 2016 database instance. Other applications run on the server. Some of the applications are throwing errors because of insufficient memory.

You need to ensure that the other applications have sufficient memory.

Which setting should you configure?



Answer:



Question No: 64 - (Topic 2)

You administer a Microsoft SQL Server 2016 database.

You have a SQL Server Agent job instance that runs using the service account. You have a job step within the job that requires elevated permissions.

You need to ensure that the job step can run using a different user account.

What should you use?

- A. A notification
- B. A schedule
- **C.** A job category
- **D.** A proxy

Answer: D

Question No: 65 - (Topic 2)

You want to simulate read, write, checkpoint, backup, sort, and read-ahead activities for your organization's SQL Server 2016 deployment.

Which of the following tools would you use to accomplish this goal?

- A. SQLIO
- **B.** SQLIOSim
- C. SQLIOStress
- **D.** chkdsk

Answer: B

Question No : 66 - (Topic 2)

Which of the following is NOT a hardware requirement for SQL Server 2016?

- **A.** 6GB of hard drive space
- B. 1GB of memory
- C. 1GHZ CPU speed
- D. a graphics card with 2GB video memory

Answer: D

Explanation: References:

https://msdn.microsoft.com/en-us/library/ms143506%28v=sql.110%29.aspx

Question No: 67 - (Topic 2)

You administer all the deployments of Microsoft SQL Server 2016 in your company. You have two servers in the same data center that hosts your production database.

You need to ensure that the database remains available if a catastrophic server failure or a disk failure occurs.

You also need to maintain transactional consistency of the data across both servers.

You need to achieve these goals without manual intervention.

Which configuration should you use?

- **A.** Two servers configured in a Windows Failover Cluster in the same data center SQL Server configured as a clustered instance
- **B.** SQL Server that includes an application database configured to perform transactional replication
- C. Two servers configured in the same data center

A primary server configured to perform log-shipping every 10 minutes

A backup server configured as a warm standby

- **D.** Two servers configured in different data centers
- SQL Server Availability Group configured in Synchronous-Commit Availability Mode One server configured as an Active Secondary
- **E.** Two servers configured in the same data center

SQL Server Availability Group configured in Asynchronous-Commit Availability Mode One server configured as an Active Secondary

F. Two servers configured in different data centers

SQL Server Availability Group configured in Asynchronous-Commit Availability Mode G.

SQL Server that includes an application database configured to perform snapshot replication

H. Two servers configured on the same subnet

SQL Server Availability Group configured in Synchronous-Commit Availability Mode

Answer: H

Reference: http://msdn.microsoft.com/en-us/library/ff877931.aspx

Question No: 68 DRAG DROP - (Topic 2)

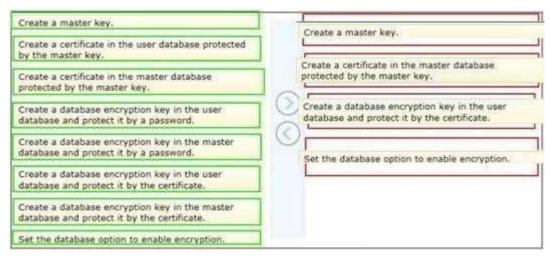
You administer a Microsoft SQL Server 2016 instance that contains a database of confidential data.

You need to encrypt the database files at the page level. You also need to encrypt the transaction log files.

Which four 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.)

Create a master key.
Create a certificate in the user database protected by the master key.
Create a certificate in the master database protected by the master key.
Create a database encryption key in the user database and protect it by a password.
Create a database encryption key in the master database and protect it by a password.
Create a database encryption key in the user database and protect it by the certificate.
Create a database encryption key in the master database and protect it by the certificate.
Set the database option to enable encryption.

Answer:



Explanation:



References: http://msdn.microsoft.com/en-us/library/bb510663.aspx http://msdn.microsoft.com/en-us/library/bb934049.aspx

Question No: 69 - (Topic 2)

Which of the following is NOT a potential Cluster resource when configuring clustering in SQL Server 2016?

- A. SQL Server Database Engine Service
- B. SQL Server Agent Service
- C. SQL Server Table Service
- **D.** All of the above

Answer: D

Question No : 70 - (Topic 2)

You administer a SQL Server 2016 database instance.

You need to configure the SQL Server Database Engine service on a failover cluster.

Which user account should you use?

- A. A domain user
- B. The BUILTIN\SYSTEM account
- **C.** A local user with Run as Service permissions
- D. The SQLB rowser account

Answer: A

Question No : 71 - (Topic 2)

You are implementing a SQL Server 2016 four-node failover cluster.

You need to choose a quorum configuration which configuration should you use?

- A. Distributed file system (DFS)
- B. Cluster Shared Volume (CSV)
- C. Node and Disk Majority
- **D.** Node Majority

Answer: D

Explanation: https://technet.microsoft.com/en-us/library/cc731739.aspx

Question No: 72 - (Topic 2)

You create an availability group that has replicas named HA/Server01 and HA/Server02. Currently, HA/Server01 is the primary replica.

You have multiple queries that read data and produce reports from the database.

You need to offload the reporting workload to the secondary replica when HA/Server01 is the primary replica.

What should you do?

- **A.** Set the Availability Mode property of HA/Server02 to Asynchronous commit.
- **B.** Set the Readable Secondary property of HA/Server02 to Read-intent only.
- **C.** Set the Connections in Primary Role property of HA/Server01 to Allow read/write connections.
- **D.** Set the Availability Mode property of HA/Server01 to Asynchronous commit.

Answer: B

Reference: http://msdn.microsoft.com/en-us/library/jj542414.aspx

Question No: 73 - (Topic 2)

If you are required to move an SQL 2012 database from one server to another, which of the following will do this at the database level?

- **A.** You just have to mirror the database.
- **B.** Detach the database, move the database files, and attach the database on the new server.
- **C.** Use the SQL Server Move Wizard to define the old and new server as well as the scheduled move time.
- **D.** The database must be created on the new machine and then the data moved with Export/Import.

Answer: B

Explanation: References:

https://msdn.microsoft.com/enus/library/ms187858%28v=sql.110%29.aspx

Question No: 74 - (Topic 2)

Which of the following DBCC commands can you use to check the physical and logical integrity of an SQL Server 2016 database?

- A. CVU
- **B. VERIFYINTEGRITY**
- C. CHECKINTEGRITY
- D. CHECKDB

Answer: D

Explanation: References:

https://msdn.microsoft.com/en-us/library/ms176064%28v=sql.110%29.aspx

Question No : 75 - (Topic 2)

You administer a Microsoft SQL Server 2016 database that includes a table named dbo.Log. This table contains millions of records about user activity in an application.

Records in dbo.Log that are more than 90 days old are purged nightly. When records are purged, table locks are causing contention with inserts.

You need to be able to modify dbo.Log without requiring any changes to the applications that utilize dbo.Log.

Which type of solution should you use?

- A. Extended events
- **B.** Columnstore index
- C. Partitioned tables
- **D.** Read committed snapshot

Answer: C

Question No : 76 - (Topic 2)

Which of the following features can you install if you are installing SQL Server 2016 Enterprise edition on a computer running Windows Server 2008 R2 SP1 Enterprise edition in the Server Core configuration? (Choose all that apply.)

- A. Database Engine Services
- B. SQL Server Replication
- C. Analysis Services
- D. Reporting Services

Answer: A,B,C

Question No : 77 - (Topic 2)

Every SQL Server 2016 database must have a datafile and which of the following file types associated with it?

- A. log file
- B. index file
- C. transaction log file
- D. instance file

Answer: C

Question No: 78 DRAG DROP - (Topic 2)

You administer a Microsoft SQL Server 2016 instance.

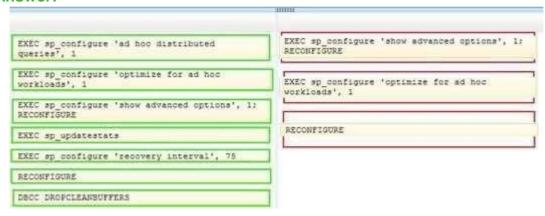
An application executes a large volume of dynamic queries.

You need to reduce the amount of memory used for cached query plans.

What should you do? (To answer, move the appropriate statements from the list of statements to the answer area and arrange them in the correct order.)



Answer:



Explanation:

Box 1:

```
EXEC sp_configure 'show advanced options', 1;
RECONFIGURE
```

Box 2:

```
EXEC sp_configure 'optimize for ad hoc workloads', 1
```

RECONFIGURE

Note:

* SQL SERVER – 2008 – Optimize for Ad hoc Workloads – Advance PerformanceOptimization

Every batch (T-SQL, SP etc) when ran creates execution plan which is stored in system for re-use. Due to this reason a large number of query plans are stored in system. However, there are plenty of plans which are only used once and have never re-used again. One time ran batch plans wastes memory and resources.

* Let us now enable the option of optimizing ad hoc workload. This feature is available in allthe versions of SQL Server 2008.

sp_CONFIGURE 'show advanced options',1
RECONFIGURE
GO

sp_CONFIGURE 'optimize for ad hoc workloads',1
RECONFIGURE
GO

SQL Server 2008 has feature of optimizing ad hoc workloads.

Question No : 79 - (Topic 2)

You work as the Senior Database Administrator (DBA) at ABC.com. The company has a main office and 10 branch offices. Each branch office contains a single database server running Microsoft SQL Server 2016. The main office has multiple clustered servers running Microsoft SQL Server 2016.

Your role includes the management of the entire Microsoft SQL Server 2016 infrastructure.

The company runs a custom application that stores data in a large Microsoft SQL Server 2016 database.

The primary database is hosted in the main office. Each branch office SQL Server hosts a copy of the database.

You need to configure a solution that will replicate the entire primary database from the main office SQL Server every weekend.

What should you include in your solution?

- A. Transactional Replication
- B. Log Shipping
- C. Snapshot Replication
- D. SQL Server Availability Group

Answer: C

Question No : 80 - (Topic 2)

Which of the following SQL Server 2016 features generates numeric values at a defined interval and order?

- A. sequence
- B. number table
- **C.** index
- **D.** bigint

Answer: A

Explanation: References:

https://msdn.microsoft.com/en-us/library/ff878091%28v=sql.110%29.aspx

Question No: 81 - (Topic 2)

You administer a Microsoft SQL Server 2016 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:

Туре	Frequency	
Full Sunday at 20:00 hours		
Differential	Monday through Friday at 20:00 hours	
Log	Monday through Friday between 08:00 hours and 18:00 hour	

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

Question No: 82 - (Topic 2)

You have an index called Employee_IDX on the table Employees. Which of the following will rebuild this index online?

- **A.** ALTER INDEX Employee_IDX ON Employees REBUILD WITH (ONLINE = ON);
- **B.** CREATE INDEX Employee IDX ON Employees REBUILD WITH (ONLINE = ON);
- C. REBUILD ONLINE INDEX Employee_IDX ON Employees;
- **D.** ALTER INDEX REBUILD ONLINE Employee_IDX;

Answer: A

Explanation: References:

https://msdn.microsoft.com/en-us/library/ms177442%28v=sql.110%29.aspx

Question No : 83 - (Topic 2)

You use Microsoft SQL Server 2016 to develop a database application. You create a stored procedure named dbo.ModifyData that can modify rows.

You need to ensure that when the transaction fails, dbo.ModifyData meets the following requirements:

Does not return an errorCloses all opened transactions

Which Transact-SQL statement should you use?

A. BEGIN TRANSACTION BEGIN TRY

EXEC dbo.ModifyData

COMMIT TRANSACTION

END TRY

BEGIN CATCH

IF @ @ TRANCOUNT = 0

ROLLBACK TRANSACTION;

END CATCH

B. BEGIN TRANSACTION

BEGIN TRY

EXEC dbo.ModifyData

COMMIT TRANSACTION

END TRY

BEGIN CATCH

IF @ @ ERROR != 0

ROLLBACK TRANSACTION;

THROW;

END CATCH

C. BEGIN TRANSACTION BEGIN TRY

EXEC dbo.ModifyData

COMMIT TRANSACTION

END TRY

BEGIN CATCH

IF @ @TRANCOUNT = 0

ROLLBACK TRANSACTION;

THROW;

END CATCH

D. BEGIN TRANSACTION

BEGIN TRY

EXEC dbo.ModifyData

COMMIT TRANSACTION

END TRY

BEGIN CATCH

IF @ @ ERROR != 0

ROLLBACK TRANSACTION;

END CATCH

Answer: D

Question No : 84 - (Topic 2)

You administer a Microsoft SQL Server 2016 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

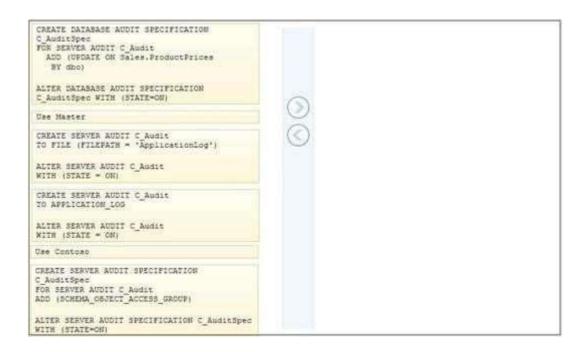
Reference: http://msdn.microsoft.com/en-us/library/ms188388.aspx

Question No: 85 DRAG DROP - (Topic 2)

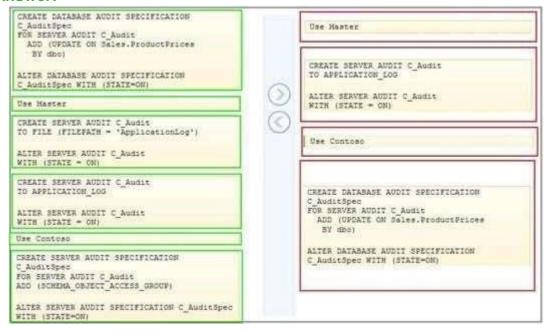
You administer a Microsoft SQL Server 2016 server that has a database named Contoso. The Contoso database has a table named ProductPrices in a schema named Sales.

You need to create a script that writes audit events into the application log whenever data in the ProductPrices table is updated.

Which four Transact-SQL statements should you use? (To answer, move the appropriate statements from the list of statements to the answer area and arrange them in the correct order.)



Answer:



Explanation:

USE Master

CREATE SERVER AUDIT C_Audit TO APPLICATION_LOG

ALTER SERVER AUDIT C_Audit WITH (STATE = ON)

USE Contoso

CREATE DATABASE AUDIT SPECIFICATION C_AuditSpec FOR SERVER AUDIT C_Audit ADD (UPDATE ON Sales.ProductPrices BY dbo)

ALTER DATABASE AUDIT SPECIFICATION C_AuditSpec WITH (STATE=ON)

References:

http://msdn.microsoft.com/en-us/library/cc280386.aspx http://msdn.microsoft.com/en-us/library/cc280448.aspx http://msdn.microsoft.com/en-us/library/cc280404.aspx

Question No: 86 - (Topic 2)

You are a database administrator for a Microsoft SQL Server 2016 database named AdventureWorks2012.

You create an Availability Group defined by the following schema. (Line numbers are included for reference only.)

```
01 CREATE AVAILABILITY GROUP Group1

02 FOR DATABASE AdventureWorks2012

03 REPLICA ON 'SecondaryServer'

04 WITH(

05 ENDPOINT_URL = 'TCP://SecondaryServer:5022',

06 ...

07 );
```

You need to implement an AlwaysOnAvailablity Group that will meet the following conditions:

- ⇒ Production transactions should be minimally affected.
- ⇒ The secondary server should allow reporting queries to be performed.
- If the primary server goes offline, the secondary server should not automatically take over.

Which Transact-SQL statement should you insert at line 06?

```
A. AVAILABILITY MODE = SYNCHRONOUS COMMIT,
FAILOVER_MODE = MANUAL
SECONDARY_ROLE (
ALLOW_CONNECTIONS = READ_ONLY,
READ_ONLY_ROUTING_URL = 'TCP://SecondaryServer:1433')
PRIMARY ROLE (
ALLOW_CONNECTIONS = READ_WRITE,
READ_ONLY_ROUTING_LIST = NONE)
B. AVAILABILITY_MODE = SYNCHRONOUS_COMMIT,
FAILOVER_MODE = MANUAL
SECONDARY_ROLE (
ALLOW CONNECTIONS = READ ONLY,
READ_ONLY_ROUTING_URL = 'TCP://SecondaryServer:1433')
C. AVAILABILITY MODE = ASYNCHRONOUS COMMIT,
FAILOVER MODE = MANUAL
SECONDARY_ROLE (
ALLOW_CONNECTIONS = READ_ONLY,
READ_ONLY_ROUTING_URL = 'TCP://SecondaryServer:1433')
D. AVAILABILITY_MODE = ASYNCHRONOUS_COMMIT,
FAILOVER MODE = MANUAL
```

SECONDARY_ROLE (
ALLOW_CONNECTIONS = YES,
READ_ONLY_ROUTING_URL = 'TCP://SecondaryServer:1433')

Answer: C

Question No : 87 HOTSPOT - (Topic 2)

You administer a Microsoft SQL Server 2016 database instance.

The instance is running on a server with the following configuration:

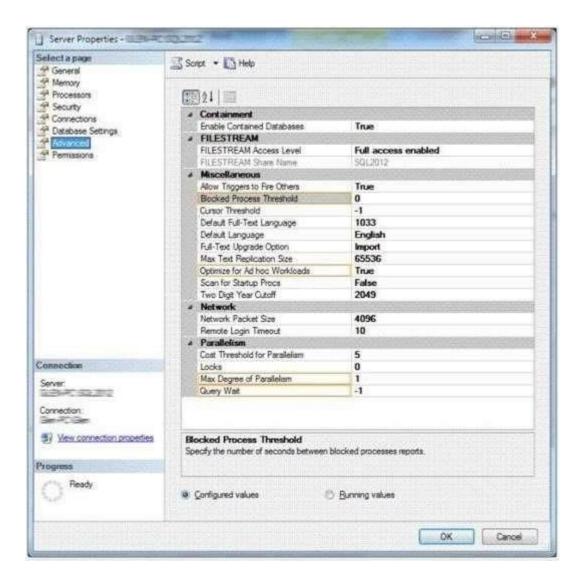
- → 1TB RAM
- ⇒ SAN storage for database and log files
- △ 4 quad-core processors
- ⇒ 64-Bit Windows 2008R2 operating system

This instance hosts a database with large partitioned tables. Users report that complex queries are taking a long time to complete.

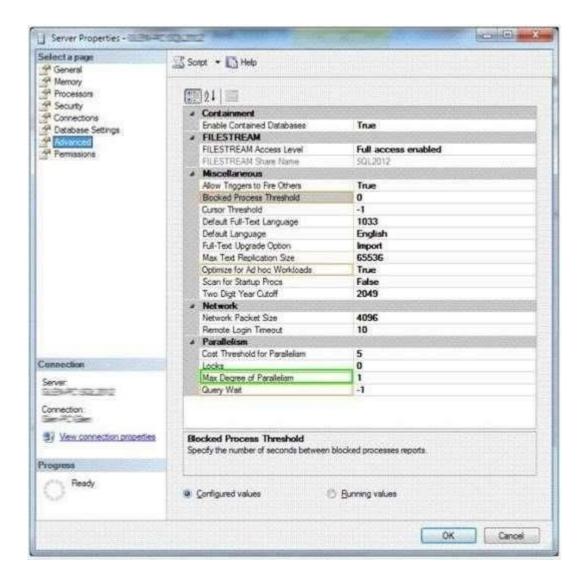
While troubleshooting, you discover that CPU utilization is low (less than 20 percent), disk activity is low (little or no waiting processes), and no significant blocking is occurring.

You need to ensure that the instance can process queries as quickly and efficiently as possible.

Which setting should you configure?



Answer:



Question No: 88 - (Topic 2)

You administer two instances of Microsoft SQL Server 2016. You deploy an application that uses a database on the named instance.

The application is unable to connect to the database on the named instance.

You need to ensure that the application can connect to the named instance.

What should you do?

- **A.** Configure the application as data-tiered.
- **B.** Open port 1433 on the Windows firewall on the server.

- **C.** Configure the named SQL Server instance to use an account that is a member of the Domain Admins group.
- D. Start the SQL Server Browser Service.

Answer: D

Question No: 89 - (Topic 2)

Which of the following is a prerequisite for an SQL Server 2016 installation?

- A. .NET Framework 3.5 SP1
- B. Visual Basic 6
- C. Internet Explorer 10
- D. SQL Server Integration Services

Answer: A

Explanation: References:

https://msdn.microsoft.com/en-us/library/ms143506%28v=sql.110%29.aspx

Question No : 90 - (Topic 2)

You are the administrator of a Microsoft SQL Server 2016 server.

Some applications consume significant resources. You need to manage the server workload by restricting resource-intensive applications

You need to dynamically limit resource consumption.

What should you do?

A. Configure Resource Pools, Workload Groups, and Classifier Function, and then enable the Resource Governor

- **B.** Set up Service Broker to ensure that application are not allowed to consume more than the specified amount of resource
- **C.** Create a new rule for each application that sets the resource limit allowed
- **D.** Create a new plan Guide with a Scope Type of sql and define the resource limits for each application

Answer: A

Question No: 91 - (Topic 2)

You develop a Microsoft SQL Server 2016 database that contains tables named Employee and Person. The tables have the following definitions:

```
CREATE TABLE [dbo].[Employee] (
  [PersonId] [bigint] NOT NULL,
  [EmployeeNumber] [nvarchar] (15) NOT NULL,
   CONSTRAINT [PK Employee] PRIMARY KEY CLUSTERED
    [PersonId] ASC
 ) ON [PRIMARY]
) ON [PRIMARY]
GO
CREATE TABLE [dbo].[Person] (
  [Id] [bigint] NOT NULL,
  [FirstName] [nvarchar] (25) NOT NULL,
  [LastName] [nvarchar] (25) NOT NULL,
   CONSTRAINT [PK Person] PRIMARY KEY CLUSTERED
    [Id] ASC
  ) ON [PRIMARY]
) ON [PRIMARY]
GO
```

You create a view named VwEmployee as shown in the following Transact-SQL statement.

```
CREATE VIEW [dbo].[VwEmployee]
AS
SELECT
Employee.EmployeeNumber,
Person.FirstName,
Person.LastName,
Person.Id
FROM Employee
INNER JOIN Person
ON Employee.PersonId = Person.Id
GO
```

Users are able to use single INSERT statements or INSERT...SELECT statements into this view. You need to ensure that users are able to use a single statement to insert records into both Employee and Person tables by using the VwEmployee view.

Which Transact-SQL statement should you use?

```
A. CREATE TRIGGER TrgVwEmployee
ON VwEmployee
FOR INSERT
AS
BEGIN
INSERT INTO Person(Id, FirstName, LastName)
SELECT Id, FirstName, LastName, FROM inserted
INSERT INTO Employee(PersonId, EmployeeNumber)
SELECT Id, EmployeeNumber FROM inserted
END
B. CREATE TRIGGER TrgVwEmployee
ON VwEmployee
INSTEAD OF INSERT
AS
BEGIN
INSERT INTO Person(Id, FirstName, LastName)
SELECT Id, FirstName, LastName, FROM inserted
INSERT INTO Employee(PersonId, EmployeeNumber)
SELECT Id, EmployeeNumber FROM inserted
C. CREATE TRIGGER TrgVwEmployee
```

ON VwEmployee

INSTEAD OF INSERT

AS

BEGIN

DECLARE @ID INT, @FirstName NVARCHAR(25), @LastName NVARCHAR(25),

@PersonID INT,

@EmployeeNumber NVARCHAR(15)

SELECT @ID = ID, @FirstName = FirstName, @LastName = LastName,

@EmployeeNumber =

EmployeeNumber

FROM inserted

INSERT INTO Person(Id, FirstName, LastName)

VALUES(@ID, @FirstName, @LastName)

INSERT INTO Employee(PersonID, EmployeeNumber)

VALUES(@PersonID, @EmployeeNumber

End

D. CREATE TRIGGER TrgVwEmployee

ON VwEmployee

INSTEAD OF INSERT

AS

BEGIN

INSERT INTO Person(Id, FirstName, LastName)

SELECT Id, FirstName, LastName FROM VwEmployee

INSERT INTO Employee(PersonID, EmployeeNumber)

SELECT Id, EmployeeNumber FROM VwEmployee

End

Answer: B

Question No: 92 - (Topic 2)

You administer a Microsoft SQL Server 2016 database named Contoso on a server named Server01.

You need to be notified immediately when fatal errors occur on Server01.

What should you create?

- A. An Alert
- B. A Server Audit Specification
- C. An Extended Event session

- **D.** A Resource Pool
- E. A Policy
- F. A SQL Profiler Trace
- G. A Database Audit Specification

Answer: A

Reference: http://www.sqlskills.com/blogs/glenn/creating-sql-server-agent-alertsforcriticalerrors/

Question No : 93 - (Topic 2)

You administer a Microsoft SQL Server 2016 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:

Database	Description		
Transactional database	Recovery model: • Full Backup schedule: • Full database backup: midnight, daily • Differential database backup: on the hour, every two hours starting at 02:00 hours except at 00:00 hours • Log backup: every half hour, except at the times of full and differential backups		
Reporting database	Recovery model: • Simple Backup schedule:		
	 Full database backup: 01:00 hours daily Differential database backup: 13:00 hours daily 		
	Data updates:		
	 Changes in data are updated from the transactional database to the reporting database at 00:30 hours and at 12:30 hours The update takes 15 minutes 		

One of the hard disk drives that stores the reporting database fails at 23:32 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.** Perform a page restore.
- **B.** Perform a partial restore.
- **C.** Perform a point-in-time restore.
- **D.** Restore the latest full backup.
- **E.** Restore the latest full backup. Then, restore the latest differential backup.
- **F.** Restore the latest full backup, and restore the latest differential backup. Then, restore the latest log backup.
- **G.** 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.
- **H.** Restore the latest full backup. Then, restore each differential backup taken before the time of failure from the most recent full backup.

Answer: E

Explanation:

To recover the database, you must restore the latest full backup and then restore the latest differential backup.

Question No : 94 - (Topic 2)

Which of the following is the default instance name in an SQL Server 2016 installation?

- A. SQLSERVER12
- **B.** MSSQLSERVER
- C. MSSQL
- **D.** 2012SQL

Answer: B

Explanation: References:

https://msdn.microsoft.com/en-us/library/ms143547(v=sql.110).aspx

Question No: 95 - (Topic 2)

Which feature should you enable and configure so session requests addressed to a specific instance can be allocated different processor resources based on session request properties?

- A. Resource Governor
- B. Windows System Resource Manager
- **C.** Processor affinity
- **D.** I/O affinity

Answer: C

Question No: 96 DRAG DROP - (Topic 2)

You administer a Microsoft SQL Server 2016 database.

You need to convert the database to a contained database. You also need to ensure that all users are converted to contained users.

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:



Question No: 97 - (Topic 2)

You administer a Microsoft SQL Server 2016 database that contains a table named AccountTransaction.

You discover that query performance on the table is poor due to fragmentation on the IDX_AccountTransaction_AccountCode non-clustered index.

You need to defragment the index. You also need to ensure that user queries are able to use the index during the defragmenting process.

Which Transact-SQL batch should you use?

A. ALTER INDEX IDX_AccountTransaction_AccountCode ON AccountTransaction.AccountCode REORGANIZE

- B. ALTER INDEX ALL ON AccountTransaction REBUILD
- **C.** ALTER INDEX IDX_AccountTransaction_AccountCode ON AccountTransaction.AccountCode REBUILD
- **D.** CREATE INDEX IDXAccountTransactionAccountCode ON AccountTransaction.AccountCode WITH DROP EXISTING

Answer: A

Question No : 98 - (Topic 2)

You develop a Microsoft SQL Server 2016 database. You create a view from the Orders and OrderDetails tables by using the following definition.

You need to improve the performance of the view by persisting data to disk.

What should you do?

- **A.** Create an INSTEAD OF trigger on the view.
- **B.** Create an AFTER trigger on the view.
- **C.** Modify the view to use the WITH VIEW_METADATA clause.
- **D.** Create a clustered index on the view.

Answer: D

Reference: http://msdn.microsoft.com/en-us/library/ms188783.aspx

Question No: 99 - (Topic 2)

Which of the following editions of SQL Server 2016 can you run on a computer that is running the Windows 7 Professional (x64) operating system? (Choose all that apply.)

- A. SQL Server 2016 (x64) Developer edition
- **B.** SQL Server 2016 (x64) Web edition **C.** SQL Server 2016 (x64) Enterprise edition
- **D.** SQL Server 2016 (x64) Standard edition

Answer: A,D

Question No: 100 DRAG DROP - (Topic 2)

You administer a Microsoft SQL Server 2016 database.

The database uses SQL Server Agent jobs to perform regular FULL and LOG backups. The database uses the FULL recovery model.

You plan to perform a bulk import of a very large text file.

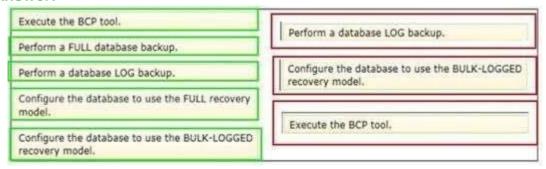
You need to ensure that the following requirements are met during the bulk operation:

- → The database transaction log is minimally affected.
- → The database is online and all user transactions are recoverable.
- All transactions are fully recoverable prior to the import.

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:



Question No : 101 - (Topic 2)

Which of the following statements will set the maximum amount of system memory that is managed by the SQL Server Memory Manager to 4GB?

- A. sp_configure 'max memory', 4;
- B. ALTER SYSTEM SET 'max server memory'=4096;
- C. sp configure 'max server memory', 4;
- **D.** sp configure 'max server memory', 4096;

Answer: D

Explanation: References:

https://msdn.microsoft.com/en-us/library/ms178067%28v=sql.110%29.aspx

Question No: 102 - (Topic 2)

Which of the following DBCC commands shows optimizer statistics for objects such as tables?

- A. STATS
- **B. SHOW_STATISTICS**
- C. OBJECT_STATS
- D. OPTIMIZER

Answer: B

Explanation: References:

https://technet.microsoft.com/en-us/library/ms174384%28v=sql.110%29.aspx

Question No : 103 DRAG DROP - (Topic 2)

You administer a Microsoft SQL Server 2016 server along with a Windows Azure SQL Database database.

For both servers, you need to grant users the ability to create logins and create databases.

You need to determine which permission to grant users in each instance.

Which permission or permissions should you choose? (To answer, drag the appropriate permission or permissions to their corresponding instance type or types in the answer area.

Answer choices may be used once, more than once, or not at all. Answer targets may be used once or not at all. Additionally, you may need to drag the split bar between panes or scroll to view content.)

Permissions		
dbmanager		
dbcreator		
db_accessadmin		
loginmanager		
securityadmin		
www.yosanni		
	Permissions dbmanager dbcreator db_accessadmin loginmanager	

Answer:



Question No: 104 - (Topic 2)

If you find that session ID 42 is blocking several other sessions, which of the following will kill that session?

A. REMOVE 42;

B. TERMINATE 42:

C. KILL SESSION 42;

D. KILL 42;

Answer: D

Explanation: References

https://msdn.microsoft.com/enus/library/ms173730%28v=sql.110%29.aspx

Question No: 105 DRAG DROP - (Topic 2)

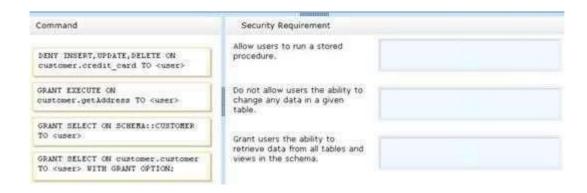
You administer a Microsoft SQL Server 2016 database.

The database contains a schema named CUSTOMER. CUSTOMER contains several tables and views with sensitive data, as well as various stored procedures and functions.

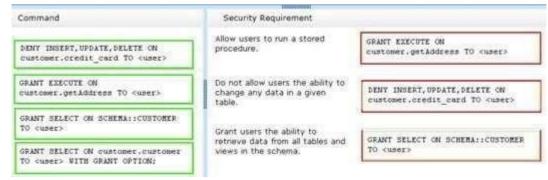
In order to configure security for CUSTOMER, you need to determine how to meet the security requirements listed in the answer area.

Which command or commands should you use? (To answer, drag the appropriate command or commands to their corresponding security requirement or requirements in the answer area. Answer choices may be used once, more than once, or not at all. Answer

targets may be used once or not at all. Additionally, you may need to drag the split bar between panes or scroll to view content.)



Answer:



Question No: 106 DRAG DROP - (Topic 2)

You administer a database named SalesDb that has users named UserA, UserB, and UserC.

You need to ensure that the following requirements are met:

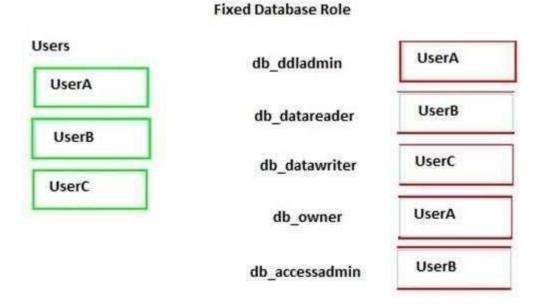
- * UserA must be able to provide Windows login access to the database.
- * UserB must be able to select, update, delete and insert data to the database tables.
- * UserC must be able to create new tables and stores procedures

You need to achieve this goal by granting only the minimum permissions required.

To which fixed database role or roles should you add the users?



Answer:



Question No : 107 DRAG DROP - (Topic 2)

You are a database administrator of a Microsoft SQL Server 2016 environment. The environment contains two servers named SQLServer01 and SQLServer02. The database Contoso exists on SQLServer01.

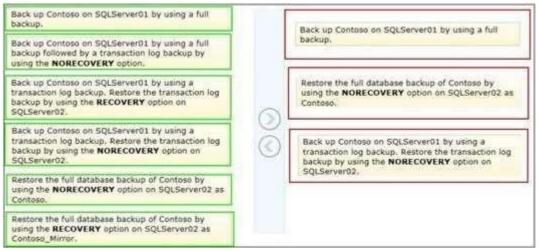
You plan to mirror the Contoso database between SQLServer01 and SQLServer02 by using database mirroring.

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:



Question No : 108 - (Topic 2)

Which of the following SQL Server 2016 tools assists DBAs in running and analyzing trace results?

- A. SSIS
- B. SQL Profiler
- C. AlwaysOn
- D. EXP

Answer: B

Explanation: References:

https://msdn.microsoft.com/en-us/library/ms187929%28v=sql.110%29.aspx

Question No : 109 - (Topic 2)

You have a large partitioned fact table in a data warehouse. The table is stored as a clustered index.

You need to modify the indexing solution to minimize the amount of disk space required to store the table.

What should you do?

- **A.** Enable row compression for the clustered index.
- **B.** Enable page compression for the clustered index.
- **C.** Implement a clustered columnstore index.
- **D.** Implement a nonclustered columnstore index.

Answer: B

Question No : 110 - (Topic 2)

You administer a Microsoft SQL Server 2016 database.

The database contains a customer table created by using the following definition:

```
CREATE TABLE dbo.Customer

(CustomerID INT PRIMARY KEY,

CustomerName VARCHAR(100) NOT NULL,

CustomerAddress1 CHAR(200) NOT NULL,

CustomerAddress2 CHAR(200) NULL,

CustomerCity VARCHAR(100) NOT NULL,

CustomerPostalCode CHAR(5) NOT NULL);
```

You need to ensure that the minimum amount of disk space is used to store the data in the customer table.

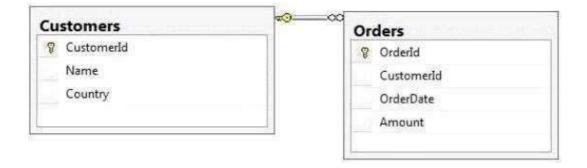
What should you do?

- **A.** Implement row-level compression.
- B. Implement page-level compression.
- C. Convert all indexes to Column Store indexes.
- **D.** Implement Unicode compression.

Answer: B

Question No: 111 - (Topic 2)

You administer a Microsoft SQL Server 2016 database named ContosoDb. Tables are defined as shown in the exhibit. (Click the Exhibit button.)



You need to display rows from the Orders table for the Customers row having the CustomerId value set to 1 in the following XML format.

Which Transact-SQL query should you use?

A. SELECT Orderld, OrderDate, Amount, Name, Country FROM Orders INNER JOIN Customers

ON Orders.CustomerId = Customers-CustomerId WHERE Customers.CustomerId = 1 FOR XML RAW

B. SELECT Orderld, OrderDate, Amount, Name, Country FROM Orders INNER JOIN Customers

ON Orders.CustomerId = Customers.CustomerId WHERE Customers.CustomerId = 1 FOR XML RAW, ELEMENTS

C. SELECT Orderld, OrderDate, Amount, Name, Country FROM Orders INNER JOIN Customers

ON Orders.CustomerId = Customers.CustomerId WHERE Customers.CustomerId = 1 FOR XML AUTO

D. SELECT Orderld, OrderDate, Amount, Name, Country FROM Orders INNER JOIN Customers

ON Orders.CustomerId – Customers.CustomerId WHERE Customers.CustomerId= 1 FOR XML AUTO, ELEMENTS

E. SELECT Name, Country, Orderld, OrderDate, Amount FROM Orders INNER JOIN Customers ON Orders.CustomerId= Customers.CustomerId WHERE

Customers.CustomerId= 1

FOR XML AUTO, ELEMENTS

F. SELECT Name, Country, Crderld, OrderDate, Amount FROM Orders INNER JOIN Customers

ON Orders.CustomerId= Customers.CustomerId WHERE Customers.CustomerId= FOR XML AUTO, ELEMENTS

G. SELECT Name AS '@Name', Country AS '@Country', Orderld, OrderDate, Amount FROM

Orders INNER JOIN Customers ON Orders.CustomerId= Customers.CustomerId WHERE Customers.

CustomerId= 1

FOR XML PATH ('Customers')

H. SELECT Name AS 'Customers/Name', Country AS 'Customers/Country', Orderld, OrderDate, Amount

FROM Orders INNER JOIN Customers ON Orders.CustomerId= Customers.CustomerId WHERE Customers.CustomerId= 1

FOR XML PATH ('Customers')

Answer: E

Question No: 112 - (Topic 2)

You administer a Microsoft SQL Server 2016 failover cluster that contains two nodes named Node A and Node B. A single instance of SQL Server is installed on the cluster.

An additional node named Node C has been added to the existing cluster.

You need to ensure that the SQL Server instance can use all nodes of the cluster.

What should you do?

- **A.** Create a ConfigurationFile.ini file from Node B, and then run the AddNode commandline tool on Node A.
- B. Use Node A to install SQL Server on Node C.
- C. Run the Add Node to SQL Server Failover Cluster Wizard on Node C.
- **D.** Use Cluster Administrator to add a new Resource Group to Node B.

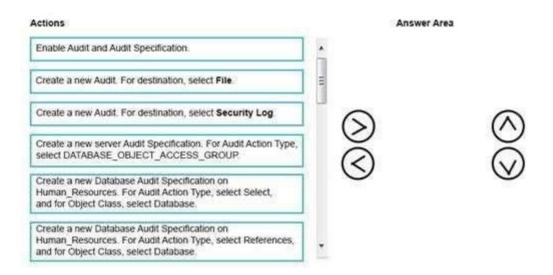
Answer: C

Question No: 113 DRAG DROP - (Topic 2)

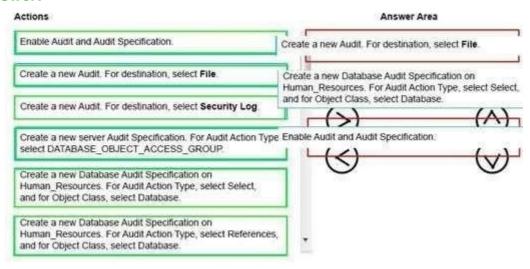
You administer a Microsoft SQL Server 2016 database named Human_Resources.

You need to ensure that all read activity against any object in the Human_Resources database is audited and written to a text file.

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:



Explanation:

Create a new Audit. For destination, select File.

Create a new Database Audit Specification on Human_Resources. For Audit Action Type, select Select, and for Object Class, select Database.

Enable Audi and Audi Specification.

The general process for creating and using an audit is as follows.

Create an audit and define the target.

- Create either a server audit specification or database audit specification that maps to the audit. Enable the audit specification.
- ⇒ Enable the audit.
- ⇒ Read the audit events by using the Windows Event Viewer, Log File Viewer, or the fn_get_audit_file function.

References: https://msdn.microsoft.com/enus/library/cc280386%28v=sql.110%29.aspx https://msdn.microsoft.com/en-us/library/cc280663%28v=sql.110%29.aspx

Question No : 114 - (Topic 2)

Which of the following is the default file extension for an SQL Server 2016 backup file?

- A. .rman
- B. bac
- C. .bak
- D. .db

Answer: C

Question No: 115 - (Topic 2)

You administer two Microsoft SQL Server 2016 servers named ProdSrv1 and ProdSrv2. ProdSrv1 is configured as a Distributor. Both servers are configured to use the Windows NT Service virtual accounts for all SQL Services.

You are configuring snapshot replication from ProdSrv1 to ProdSrv2 by using ProdSrv2 as a pull subscriber.

The distribution agent on ProdSrv2 regularly fails, displaying the following error message:

"Cannot access the file. Operating system error code 5 (Access is denied.)."

You need to configure the distribution agent by granting only the minimum required access to all accounts.

What should you do?

- A. Configure the Subscriber to use the Local System account.
- **B.** Configure the SQL Server Agent service to run under the Local System account. Configure the Subscriber to use the SQL Server Agent service account.
- **C.** Configure the SQL Server Agent service to run under a Windows domain account. Configure the Subscriber to use the SQL Server Agent service account. Grant FULL CONTROL access for the domain account to the ReplData share on ProdSrv1.
- **D.** Configure the Subscriber to use a Windows domain account. Grant READ access for the domain account to the ReplData share on ProdSrv1.

Answer: D

Question No : 116 - (Topic 2)

You administer a Microsoft SQL Server 2016 server. One of the databases on the server supports a highly active OLTP application.

Users report abnormally long wait times when they submit data into the application.

You need to gather blocking data over an extended period of time. You also need to ensure minimum impact to server performance.

What should you do?

- **A.** use SQL Profiler to trace all queries that are processing on the server. Filter queries that have a Duration value of more than 1,000.
- **B.** Use sp_configure to set a value for blocked process threshold. Create an extended event session.
- **C.** Use the Job Activity monitor to review all processes that are actively running. Review the Job History to find out the duration of each step.
- **D.** Run the sp_who command from a query window and examine the BlkBy column.
- **E.** Run the DBCC TRACEON 1222 command from a query window and review the SQL Server event log.

Answer: A

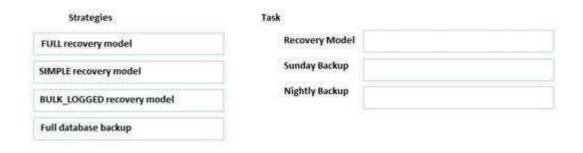
Question No: 117 DRAG DROP - (Topic 2)

Every Sunday afternoon, a process inserts a large volume of data. Users generate reports and modify additional data throughout the week.

You need to create a backup strategy that:

- * minimizes the size of the transaction log.
- * minimizes the size of the backups, and
- * ensures a 24-hour recovery point objective (RPO)

Which Strategy or strategies should you use?



Answer:



Question No : 118 - (Topic 2)

You administer a Microsoft SQL Server 2016 database.

Users report that a billing application becomes unresponsive during busy times of the day.

While investigating, you notice large number of processes taking or waiting for table locks.

You suspect that SQL Server is assigning stronger locks to queries.

You start a SQL Profiler trace.

Which event should you select?

A. Deadlock graph

B. Lock: Escalation

C. Lock: Timeout

D. Lock: Deadlock

Answer: B

Question No: 119 - (Topic 2)

You administer a SQL Server 2016 server that contains a database named SalesDB. SalesDb contains a schema named Customers that has a table named Regions. A user named UserA is a member of a role named Sales.

UserA is granted the Select permission on the Regions table. The Sales role is granted the Select permission on the Customers schema.

You need to ensure that the Sales role, including UserA, is disallowed to select from any of the tables in the Customers schema.

Which Transact-SQL statement should you use?

- A. REVOKE SELECT ON Schema::Customers FROM UserA
- B. DENY SELECT ON Object::Regions FROM UserA
- **C.** EXEC sp_addrolemember 'Sales', 'UserA'
- D. DENY SELECT ON Object::Regions FROM Sales

- E. REVOKE SELECT ON Object::Regions FROM UserA
- F. DENY SELECT ON Schema::Customers FROM Sales
- G. DENY SELECT ON Schema::Customers FROM UserA
- H. EXEC sp_droprolemember 'Sales', 'UserA'
- I. REVOKE SELECT ON Object::Regions FROM Sales
- J. REVOKE SELECT ON Schema::Customers FROM Sales

Answer: F

Explanation:

References: http://msdn.microsoft.com/en-us/library/ms188369.aspx http://msdn.microsoft.com/en-us/library/ms187750.aspx http://msdn.microsoft.com/en-us/library/ff848791.aspx http://msdn.microsoft.com/en-us/library/ms187728.aspx

Question No: 120 - (Topic 2)

You administer a Microsoft SQL Server 2016 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.

You implement log shipping of the financial database to another SQL Server 2016 instance.

You decide to failover to this secondary database.

You need to ensure that all transactions will be replicated to the secondary database.

Which backup option should you use?

- A. Differential
- **B.** Transaction Log
- C. FULL
- **D.** SIMPLE
- E. SKIP
- F. RESTART
- G. STANDBY
- H. CHECKSUM
- I. DBO_ONLY
- J. COPY_ONLY
- **K.** NORECOVERY
- L. NO CHECKSUM
- M. CONTINUE_AFTER_ERROR
- N. BULK LOGGED

Answer: B

Reference:

http://technet.microsoft.com/en-us/library/ms187103.aspx

http://msdn.microsoft.com/en-us/library/ms191233.aspx

http://msdn.microsoft.com/en-us/library/ms178117.aspx

Question No: 121 - (Topic 2)

You administer a Microsoft SQL Server 2016 Enterprise Edition server that uses 64 cores.

You discover performance issues when complex calculations are performed on large amounts of data under heavy system load.

You need to limit the number of cores that process the calculations.

What should you configure?

- A. Max worker threads
- **B.** Processor affinity
- C. I/O affinity
- D. Lightweight pooling

Answer: B

Explanation:

To carry out multitasking, the operating system sometimes moves process threads among different processors. This is efficient from an operating system point of view, but can reduce SQL Server performance under heavy system loads, as each processor cache is repeatedly reloaded with data. Assigning processors to specific threads can improve performance under these conditions by eliminating processor reloads; such an association between a thread and a processor is called processor affinity.

References:

https://msdn.microsoft.com/en-us/library/ms189629%28v=sql.110%29.aspx

Question No: 122 - (Topic 2)

Which of the following SQL Server 2016 indexes stores data in a column-wise fashion instead of the traditional row-wise method?

- A. Bitmap Index
- **B.** Clustered Index

- C. Function-based Index
- D. Columnstore Index

Answer: D

Explanation: References:

https://msdn.microsoft.com/en-us/library/gg492088%28v=sql.110%29.aspx

Question No: 123 - (Topic 2)

Your database contains a table named Purchases. The table includes a DATETIME column named PurchaseTime that stores the date and time each purchase is made. There is a non-clustered index on the PurchaseTime column. The business team wants a report that displays the total number of purchases made on the current day. You need to write a query that will return the correct results in the most efficient manner.

Which Transact-SQL query should you use?

A. SELECT COUNT(*)

FROM Purchases

WHERE PurchaseTime = CONVERT(DATE, GETDATE())

B. SELECT COUNT(*)

FROM Purchases

WHERE PurchaseTime = GETDATE()

C. SELECT COUNT(*)

FROM Purchases

WHERE CONVERT(VARCHAR, PurchaseTime, 112) = CONVERT(VARCHAR,

GETDATE(), 112)

D. SELECT COUNT(*)

FROM Purchases

WHERE PurchaseTime >= CONVERT(DATE, GETDATE())

AND PurchaseTime < DATEADD(DAY, 1, CONVERT(DATE, GETDATE()))

Answer: D

Reference: http://technet.microsoft.com/en-us/library/ms181034.aspx

Question No: 124 - (Topic 2)

You administer a Microsoft SQL Server 2016 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

Reference: http://msdn.microsoft.com/en-us/library/ms174202.aspx

Question No: 125 - (Topic 2)

You administer a Microsoft SQL Server 2016 database instance. You create a new user named UserA.

You need to ensure that UserA is able to create SQL Server Agent jobs and execute SQL Server agent jobs owned by UserA

To which role should you add UserA?

- A. DatabaseMailUserRole
- **B.** ServerGroupAdministratorGroup
- C. SQLAgentUserRole
- D. Securityadmin

Answer: C

Question No: 126 - (Topic 2)

You have a SQL Server database named DB1.

You plan to load 10 milion rows to DB1 by running bcp.exe.

You need to modify DB1 to minimize the amount of space required to store the transaction logs during the load operation. The solution must ensure that you can perform a point-in time restore.

Which database setting should you modify?

- **A.** Compatibility level to 120
- **B.** Containment type to partial.
- C. Recovery model to Bulk logged.
- **D.** Recovery model to simple.

Answer: C

Question No: 127 DRAG DROP - (Topic 2)

You administer a Microsoft SQL Server 2016 database.

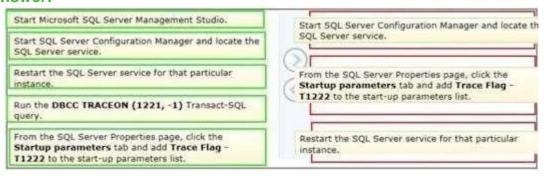
Your database is experiencing deadlock issues.

You need to be able to monitor deadlocks.

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: https://msdn.microsoft.com/en-us/library/ms188396.aspx

1222	Returns the resources and types of locks that are participating in a deadlock and also the current of format that does not comply with any XSD schema.
	Scope: global only

Remarks

In SQL Server, there are two types of trace flags: session and global. Session trace flags are active for a connection connection. Global trace flags are set at the server level and are visible to every connection on the server. Some flags are earlier global or session scope.

The following rules apply:

- A global trace flag must be enabled globally. Otherwise, the trace flag has no effect. We recommend that startup, by using the -T command line option.
- If a trace flag has either global or session scope, it can be enabled with the appropriate scope. A trace flag never affects another session, and the effect of the trace flag is lost when the SPID that opened the session

Trace flags are set on or off by using either of the following methods:

· Using the DBCC TRACEON and DBCC TRACEOFF commands.

For example, DBCC TRACEON 2528: To enable the trace flag globally, use DBCC TRACEON with the -1 argument.

To turn off a global trace flag, use DBCC TRACEOFF with the -1 argument.

Using the -T startup option to specify that the trace flag be set on during startup.

The -T startup option enables a trace flag globally. You cannot enable a session-level trace flag by using a about startup options, see Database Engine Service Startup Options.

· At the query level, by using the QUERYTRACEON query hint.

Use the DBCC TRACESTATUS command to determine which trace flags are currently active.

Question No: 128 - (Topic 2)

You are a database administrator for a Microsoft SQL Server 2016 environment.

You want to deploy a new application that will scale out the workload to at least five different SQL Server instances.

You need to ensure that for each copy of the database, users are able to read and write data that will then be synchronized between all of the database instances.

Which feature should you use?

- A. Database Mirroring
- B. Peer-to-Peer Replication
- C. Log Shipping
- D. Availability Groups

Answer: B

Question No: 129 - (Topic 2)

You have recently removed a SQL 2012 Database Engine instance from a computer running the Windows Server 2008 R2 operating system. Prior to the removal of the instance, you had configured affinity so that the default instance used CPU 0 and 1 and the second instance used CPU 2 and 3.

You want to ensure that the default instance can use all processors available to the host.

Which of the following commands would you use to accomplish this goal?

- A. ALTER SERVER CONFIGURATION SET PROCESS AFFINITY CPU = AUTO
- **B.** ALTER SERVER CONFIGURATION SET PROCESS AFFINITY CPU = 2,3 **C.** ALTER SERVER CONFIGURATION SET PROCESS AFFINITY CPU = 0,1
- **D.** ALTER SERVER CONFIGURATION SET PROCESS AFFINITY CPU = 0,4 Answer:

Question No: 130 - (Topic 2)

You are a database developer for an application hosted on a Microsoft SQL Server 2016 server. The database contains two tables that have the following definitions:

```
CREATE TABLE Customer
(CustomerID int NOT NULL PRIMARY KEY,
CustomerName varchar(50) NOT NULL)

CREATE TABLE Orders
(OrderID int NOT NULL PRIMARY KEY,
CustomerID int NOT NULL FOREIGN KEY REFERENCES Customer (CustomerID),
OrderAmount money NOT NULL,
ShippingCountry varchar(50) NOT NULL)
```

Global customers place orders from several countries. You need to view the country from which each customer has placed the most orders.

Which Transact-SQL query do you use?

A. SELECT c.CustomerID, c.CustomerName, o.ShippingCountry

FROM Customer c

INNER JOIN

(SELECT CustomerID, ShippingCountry,

RANK() OVER (PARTITION BY CustomerID

ORDER BY COUNT(OrderAmount) DESC) AS Rnk

FROM Orders

GROUP BY CustomerID, ShippingCountry) AS o

ON c.CustomerID = o.CustomerID

WHERE o.Rnk = 1

B. SELECT c.CustomerID, c.CustomerName, o.ShippingCountry

FROM

(SELECT c.CustomerID, c.CustomerName, o.ShippingCountry,

RANK() OVER (PARTITION BY CustomerID

ORDER BY COUNT(o.OrderAmount) ASC) AS Rnk

FROM Customer c

INNER JOIN Orders o

ON c.CustomerID = o.CustomerID

GROUP BY c.CustomerID, c.CustomerName, o.ShippingCountry) cs

WHERE Rnk = 1

C. SELECT c.CustomerID, c.CustomerName, o.ShippingCountry

FROM Customer c

INNER JOIN

(SELECT CustomerID, ShippingCountry,

RANK() OVER (PARTITION BY CustomerID

ORDER BY OrderAmount DESC) AS Rnk

FROM Orders

GROUP BY CustomerID, ShippingCountry) AS o

ON c.CustomerID = o.CustomerID

WHERE o.Rnk = 1

D. SELECT c.CustomerID, c.CustomerName, o.ShippingCountry

FROM Customer c

INNER JOIN

(SELECT CustomerID, ShippingCountry,

COUNT(OrderAmount) DESC) AS OrderAmount

FROM Orders

GROUP BY CustomerID, ShippingCountry) AS o

ON c.CustomerID = o.CustomerID

ORDER BY OrderAmount DESC

Answer: A

Question No: 131 - (Topic 2)

You administer a SQL Server 2016 server that contains a database named SalesDb. SalesDb contains a schema named Customers that has a table named Regions. A user named UserA is a member of a role named Sales. UserA is granted the Select permission on the Regions table. The Sales role is granted the Select permission on the Customers schema.

You need to ensure that the following requirements are met:

- → The Sales role does not have the Select permission on the Customers schema.
- → UserA has the Select permission on the Regions table.

Which Transact-SQL statement should you use?

- A. DENY SELECT ON Object::Regions FROM Sales
- B. DENY SELECT ON Schema::Customers FROM Sales
- C. REVOKE SELECT ON Object::Regions FROM Sales
- D. REVOKE SELECT ON Schema::Customers FROM Sales
- E. DENY SELECT ON Object::Regions FROM UserA
- F. DENY SELECT ON Schema::Customers FROM UserA
- G. REVOKE SELECT ON Object::Regions FROM UserA
- H. REVOKE SELECT ON Schema::Customers FOR UserA
- I. EXEC sp addrolemember 'Sales', 'UserA'
- J. EXEC sp droprolemember 'Sales', 'UserA'

Answer: D

Explanation: References: http://msdn.microsoft.com/en-us/library/ms188369.aspx http://msdn.microsoft.com/en-us/library/ms187750.aspx http://msdn.microsoft.com/en-us/library/ff848791.aspx

Question No: 132 - (Topic 2)

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:

https://msdn.microsoft.com/en-us/library/ms190768%28v=sql.110%29.aspx

Question No: 133 DRAG DROP - (Topic 2)

You have a SQL server database server that contains a database named CustomerDB. CustomerDB is protected by using transparent data encryption (TDE) and a certificate named TDE_cert.

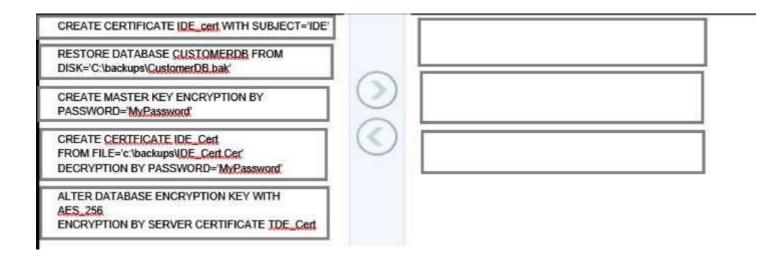
The Server fails.

You deploy a new server and restore all of the backups to a folder named C:\backups.

You need to restore the database to the new server.

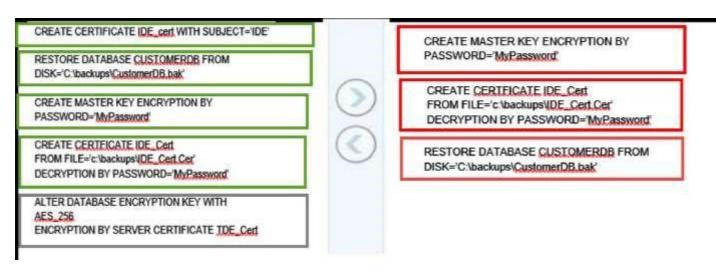
Which Statements should you execute in sequence?

Answer:



Question No : 134 - (Topic 2)

You administer a Microsoft SQL Server database.



You need to ensure that the size of the transaction log file does not exceed 2 GB.

What should you do?

A. Execute sp_configure 'max log size', 2G.

- **B.** use the ALTER DATABASE...MODIFY FILE command along with the maxsize parameter.
- **C.** Use the ALTER DATABASE...MODIFY FILEGROUP command along with the maxsize parameter.
- **D.** in SQL Server Management Studio, expand the storage leaf under the database. Select the Transaction log file and set the maximum size of the file.

Answer: B

Explanation:

```
USE [master]
GO
ALTER DATABASE [mydb] MODIFY FILE ( NAME = N'modellog',
MAXSIZE = )
GO
```

Question No : 135 - (Topic 2)

You work as a Database Administrator (DBA) at ABC.com. The infrastructure includes servers running Microsoft SQL Server 2016. 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

Question No: 136 - (Topic 2)

You administer a Microsoft SQL Server 2016 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 Explanaton:

Question No: 137 - (Topic 2)

You administer a Microsoft SQL Server 2016 database.

By default, execution trace messages are not written to the SQL Server Agent error log, because they can fill it. When the error select and analyze more difficult errors is reduced. Because the log adds to the server's processing load, it is important to conyour obtain by capturing execution trace messages to the error log. Generally, it is best to capture all messages only when you problem.

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. Update all stored procedure to use a TRY...CATCH block.

- **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

Question No : 138 - (Topic 2)

Which of the following is a valid upgrade path for SQL Server 2016?

- A. SQL Server 2000 -> SQL Server 2016
- B. SQL Server 2000 -> SQL Server 2005 -> SQL Server 2016
- C. SQL Server 7 -> SQL Server 2016
- D. Oracle 11g -> SQL Server 2016

Answer: B

Explanation: References:

https://technet.microsoft.com/en-us/library/ms143393%28v=sql.110%29.aspx https://technet.microsoft.com/en-us/library/ms143393%28v=sql.90%29.aspx

Question No: 139 - (Topic 2)

Before moving an SQL Server 2016 database file to a new location, which of the following must first be accomplished?

- **A.** The database must be set to OFFLINE.
- **B.** The SQL Server Service must be stopped.
- **C.** The database must be deleted.
- **D.** The database must have the "shrink" operation run.

Answer: A

Explanation: References:

https://msdn.microsoft.com/en-us/library/ms345483%28v=sql.110%29.aspx

Question No: 140 DRAG DROP - (Topic 2)

You create a view based on the following statement:

```
CREATE VIEW dbo.vwItemList

AS

SELECT

b.BatchID

, b.MailItemID

, c.ContractNum

, c.FirstName + ' ' + c.LastName as ContractName

, a.Address1

, a.City + ', ' + a.State + ' ' + a.Zip

FROM BatchLog b

join Contract c on b.MailItemID = c.ContractID

join Address a on a.ContractID = c.ContractID

WHERE

b.ProcessDate >= dateadd(d, 1,EOMONTH(GETDATE(),-2));
```

You grant the Select permission to User1 for this view. You need to change the view so that it displays only the records that were processed in the month prior to the current month. You need to ensure that after the changes, the view functions correctly for User1. Which four Transact-SQL statements should you use? (To answer, move the appropriate SQL statements from the list of statements to the answer area and arrange them in the correct order.)

Ordered List Title

Answer List Title

DROP VIEW
dbo.vwltemList;
GO
CREATE VIEW
dbo.vwltemList
AS

ALTER VIEW dbo.vwltemList AS

WHERE b.ProcessDate >= dateadd (d, 1, EOMONTH (GETDATE (), -2)) AND b.ProcessDate < = EOMONTH (GETDATE (), -1)

WHERE b.ProcessDate > = dateadd (d, 1, EOMONTH (GETDATE (), -2))
AND b.ProcessDate < dateadd (d, 1, EOMONTH (GETDATE (), -1))

SELECT b.BatchID , b.BailItemID , c.ContractNum , c.FirstName + " + c.LastName as ContractName , a.Address1 , a.City + ' , ' + a.State + ' ' + a.Zip

FROM BatchLog b
JOIN Contract c ON
b.MailItemID = c.ContractID
JOIN Address a ON
a.ContractID = c.ContractID

GO GRANT SELECT ON SCHEMA:: vwltemList TO User1

Answer:

Answer List Title

DROP VIEW dbo.vwltemList; GO CREATE VIEW dbo.vwltemList AS

ALTER VIEW dbo.vwltemList AS

WHERE b.ProcessDate >= dateadd (d, 1, EOMONTH (GETDATE (), -2)) AND b.ProcessDate < = EOMONTH (GETDATE (), -1)

WHERE b.ProcessDate > = dateadd (d, 1, EOMONTH (GETDATE (), -2))
AND b.ProcessDate < dateadd (d, 1, EOMONTH (GETDATE (), -1))

SELECT

- b.BatchID
- . b.BailltemID
- , c.ContractNum
- , c.FirstName + "+
- c.LastName as
- ContractName , a.Address1
- , a.City + ' , ' + a.State + ' '
- + a.Zip

FROM BatchLog b
JOIN Contract c ON
b.MailItemID = c.ContractID
JOIN Address a ON
a.ContractID = c.ContractID

GO

GRANT SELECT ON SCHEMA : : vwltemList TO User1

Ordered List Title

ALTER VIEW dbo.vwltemList AS

SELECT

- b.BatchID
- b.BailltemID
- . c.ContractNum
- , c.Contractivum
- , c.FirstName + " +
- c.LastName as
- ContractName . a.Address1
- , a.City + ' , ' + a.State + ' '
- + a.Zip

FROM BatchLog b
JOIN Contract c ON
b.MailltemID = c.ContractID
JOIN Address a ON
a.ContractID = c.ContractID

WHERE b.ProcessDate >= dateadd (d, 1, EOMONTH (GETDATE (), -2)) AND b.ProcessDate < = EOMONTH (GETDATE (), -1)

Explanation:

Ordered List Title

ALTER VIEW dbo.vwltemList AS

```
SELECT
b.BatchID
, b.BailItemID
, c.ContractNum
, c.FirstName + " +
c.LastName as
ContractName
, a.Address1
, a.City + ' , ' + a.State + ' '
+ a.Zip
```

FROM BatchLog b
JOIN Contract c ON
b.MailItemID = c.ContractID
JOIN Address a ON
a.ContractID = c.ContractID

WHERE b.ProcessDate >= dateadd (d, 1, EOMONTH (GETDATE (), -2)) AND b.ProcessDate < = EOMONTH (GETDATE (), -1)

Explanation/Reference: http://msdn.microsoft.com/en-us/library/hh213020.aspx http://msdn.microsoft.com/en-

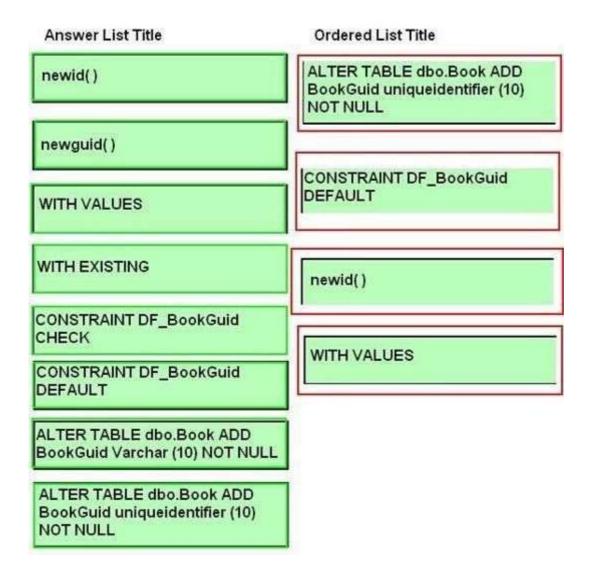
us/library/ms186819.aspx http://msdn.microsoft.com/enus/library/ms173846.aspx **Question No: 141 DRAG DROP - (Topic 2)**

You want to add a new GUID column named BookGUID to a table named dbo.Book that already contains data.

BookGUID will have a constraint to ensure that it always has a value when new rows are inserted into dbo.Book. You need to ensure that the new column is assigned a GUID for existing rows. Which four Transact-SQL statements should you use? (To answer, move the appropriate SQL statements from the list of statements to the answer area and arrange them in the correct order.)

Answer List Title	Ordered List Title
newid()	
newguid()	
WITH VALUES	
WITH EXISTING	
CONSTRAINT DF_BookGuid	
CONSTRAINT DF_BookGuid DEFAULT	
ALTER TABLE dbo.Book ADD BookGuid Varchar (10) NOT NULL	
ALTER TABLE dbo.Book ADD BookGuid uniqueidentifier (10) NOT NULL	

Answer:



Question No: 142 - (Topic 2)

You develop a database for a travel application. You need to design tables and other database objects. You need to store media files in several tables. Each media file is less than 1 MB in size.

The media files will require fast access and will be retrieved frequently.

What should you do?

- **A.** Use the CAST function.
- **B.** Use the DATE data type.
- **C.** Use the FORMAT function.
- **D.** Use an appropriate collation.

- **E.** Use a user-defined table type.
- **F.** Use the VARBINARY data type.
- **G.** Use the DATETIME data type.
- **H.** Use the DATETIME2 data type.
- **I.** Use the DATETIMEOFFSET data type.
- **J.** Use the TODATETIMEOFFSET function.

Answer: F

Reference: http://msdn.microsoft.com/en-us/library/ms188362.aspx

Question No : 143 - (Topic 2)

You install Microsoft SQL Server 2016 on a new server.

After setup is complete, you attempt to start the SQL Server service. After being in a starting state for a few moments, the service goes back to a stopped state.

You need to determine the cause of the failure.

Which file should you use?

A. %programfiles%\Microsoft SQL

Server\MSSQL11.MSSQLSERVER\MSSQL\Log\Errorlog

- B. %programfiles%\Microsoft SQL Server\110\Setup Bootstrap\Log\Summary.txt
- C. %programfiles%\Microsoft SQL

Server\110\Shared\ErrorDumps\SQLDmpr[XXXX].mdmp

D. %programfiles%\Microsoft SQL

Server\MSSQL11.MSSQLSERVER\MSSQL\DATA\mastlog.ldf

Answer: A

Question No: 144 - (Topic 2)

You use Microsoft SQL Server 2016 to develop a database application. You need to implement a computed column that references a lookup table by using an INNER JOIN against another table.

What should you do?

- **A.** Reference a user-defined function within the computed column.
- **B.** Create a BEFORE trigger that maintains the state of the computed column.
- **C.** Add a default constraint to the computed column that implements hard-coded values.
- **D.** Add a default constraint to the computed column that implements hard-coded CASE statements.

Answer: A

Question No: 145 - (Topic 2)

You administer a Microsoft SQL Server 2016 instance.

The instance contains a database that supports a retail sales application. The application generates hundreds of transactions per second and is online 24 hours per day and 7 days per week.

You plan to define a backup strategy for the database. You need to ensure that the following requirements are met:

- → No more than 5 minutes worth of transactions are lost.
- ⇒ Data can be recovered by using the minimum amount of administrative effort.

What should you do? Choose all that apply.

- **A.** Configure the database to use the SIMPLE recovery model.
- **B.** Create a DIFFERENTIAL database backup every 4 hours.
- **C.** Create a LOG backup every 5 minutes.
- **D.** Configure the database to use the FULL recovery model.
- **E.** Create a FULL database backup every 24 hours.
- **F.** Create a DIFFERENTIAL database backup every 24 hours.

Answer: B,C,D,E

Question No: 146 - (Topic 2)

You administer a Microsoft SQL Server 2016 database named Contoso that contains a single user-defined database role namedBillingUsers.

All objects in Contoso are in the dbo schema.

You need to grant EXECUTE permission for all stored procedures in Contoso to BillingUsers.

Which Transact-SQL statement should you use?

A. CREATE ROLE proc_caller

GRANT EXECUTE ON Schema: : dbo TO proc_caller

ALTER ROLE proc_caller ADD MEMBER BillingUsers

- B. GRANT EXECUTE ON INFORMATION_SCHEMA.ROUTINES TO BillingUsers
- C. EXEC sp_addrolemember 'executor', 'BillingUsers'
- **D.** CREATE ROLE proc_caller

GRANT EXECUTE ON ALL PROCEDURES TO proc_caller

ALTER MEMBER BillingUsers ADD TO ROLE proc_caller

Answer: A

Question No: 147 - (Topic 2)

A table named Profits stores the total profit made each year within a territory. The Profits table has columns named Territory, Year, and Profit. You need to create a report that displays the profits made by each territory for each year and its previous year.

Which Transact-SQL query should you use?

A. SELECT Territory, Year, Profit,

LEAD(Profit, 1, 0) OVER (PARTITION BY Territory ORDER BY Year) AS PrevProfit FROM Profits

B. SELECT Territory, Year, Profit,

LAG(Profit, 1, 0) OVER (PARTITION BY Year ORDER BY Territory) AS PrevProfit FROM Profits

C. SELECT Territory, Year, Profit,

LAG(Profit, 1, 0) OVER (PARTITION BY Territory ORDER BY Year) AS PrevProfit FROM Profits

D. SELECT Territory, Year, Profit,

LEAD(Profit, 1, 0) OVER (PARTITION BY Year ORDER BY Territory) AS PrevProfit FROM Profits

Answer: C Reference:

http://msdn.microsoft.com/enus/library/hh23 1256.a spx

http://msdn.microsoft.com/en-us/library/hh213125.aspx

Question No : 148 - (Topic 2)

You administer a SQL Server 2016 server that contains a database named SalesDB. SalesDb contains a schema named Customers that has a table named Regions. A user named UserA is a member of a role named Sales.

UserA is granted the Select permission on the Regions table. The Sales role is granted the Select permission on the Customers schema.

You need to ensure that UserA is disallowed to select from any of the tables in the Customers schema.

Which Transact-SQL statement should you use?

- A. DENY SELECT ON Object::Regions FROM UserA
- B. DENY SELECT ON Object::Regions FROM Sales
- C. REVOKE SELECT ON Schema::Customers FROM Sales
- D. REVOKE SELECT ON Schema::Customers FROM UserA

- E. REVOKE SELECT ON Object::Regions FROM Sales
- F. REVOKE SELECT ON Object::Regions FROM UserA
- G. DENY SELECT ON Schema::Customers FROM Sales
- H. DENY SELECT ON Schema::Customers FROM UserA
- I. EXEC sp_addrolemember 'Sales', 'UserA'
- J. EXEC sp droprolemember 'Sales', 'UserA'

Answer: H

Explanation:

References: http://msdn.microsoft.com/en-us/library/ms188369.aspx http://msdn.microsoft.com/en-us/library/ms187750.aspx http://msdn.microsoft.com/en-us/library/ff848791.aspx

Question No: 149 - (Topic 2)

You administer a Microsoft SQL Server 2016 database named Contoso on a server named Server01.

You need to track all SELECT statements issued in the Contoso database only by users in a role named Sales.

What should you create?

- A. An Alert
- B. A Resource Pool
- C. An Extended Event session
- D. A Server Audit Specification
- E. A SQL Profiler Trace
- F. A Database Audit Specification
- G. A Policy
- H. A Data Collector Set

Answer: F

Question No : 150 - (Topic 2)

Which of the following is a disaster recovery solution offered in SQL Server 2016 and involves maintaining a standby copy of a primary database?

- A. AlwaysOn
- B. Log Shipping
- C. Clustering
- D. DataGuard

Answer: A

Question No: 151 - (Topic 2)

You administer a Microsoft SQL Server 2016 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 instance. Restore the master database on the SQL2012 instance
- **B.** Use the Transfer Logins task in a Microsoft SQL Server Integrated Services package **C.** Use sp_grantlogin
- **D.** Use xp_logininfo.

Answer: B

Question No : 152 - (Topic 2)

You create a table that has the StudentCode, SubjectCode, and Marks columns to record mid-year marks for students. The table has marks obtained by 50 students for various subjects.

You need to ensure that the top half of the students arranged by their average marks must be given a rank of 1 and the remaining students must be given a rank of 2.

Which Transact-SQL query should you use?

A. SELECT StudentCode as Code,
RANK() OVER (ORDER BY AVG (Marks) DESC) AS Value
FROM StudentMarks
GROUP BY StudentCode
B. SELECT Id, Name, Marks,
DENSE_RANK() OVER (ORDER BY Marks DESC) AS Rank
FROM StudentMarks
C. SELECT StudentCode as Code,
DENSE RANK() OVER (ORDER BY AVG (Marks) DESC) AS Value

FROM StudentMarks

GROUP BY StudentCode

D. SELECT StudentCode as Code.

NTILE (2) OVER (ORDER BY AVG (Marks) DESC) AS Value

FROM StudentMarks

GROUP BY StudentCode

E. SELECT StudentCode AS Code, Marks AS Value FROM (

SELECT StudentCode, Marks AS Marks.

RANK() OVER (PARTITION BY SubjectCode ORDER BY Marks ASC) AS Rank

FROM StudentMarks) tmp

WHERE Rank = 1

F. SELECT StudentCode AS Code, Marks AS Value FROM (

SELECT StudentCode, Marks AS Marks,

RANK() OVER (PARTITION BY SubjectCode ORDER BY Marks DESC) AS Rank

FROM StudentMarks) tmp

WHERE Rank = 1

G. SELECT StudentCode AS Code, Marks AS Value FROM (

SELECT StudentCode, Marks AS Marks,

RANK () OVER (PARTITION BY StudentCode ORDER BY Marks ASC) AS Rank

FROM StudentMarks) tmp

WHERE Rank = 1

H. SELECT StudentCode AS Code, Marks AS Value FROM (

SELECT StudentCode, Marks AS Marks,

RANXO OVER (PARTITION BY StudentCode ORDER BY Marks DESC) AS Rank

FROM StudentMarks) tmp

WHERE Rank = 1

Answer: D

Question No: 153 - (Topic 2)

You plan to install Microsoft SQL Server 2016 for a web hosting company.

The company plans to host multiple web sites, each supported by a SQL Server database.

You need to select an edition of SQL Server that features backup compression of databases, basic data integration features, and low total cost of ownership.

Which edition should you choose?

- A. Express Edition with Tools
- **B.** Standard Edition
- C. Web Edition
- D. Express Edition with Advanced Services

Answer: B

Question No : 154 - (Topic 2)

You are developing a database application by using Microsoft SQL Server 2016. An application that uses a database begins to run slowly.

You discover that a large amount of memory is consumed by single-use dynamic queries.

You need to reduce procedure cache usage from these statements without creating any additional indexes.

What should you do?

- **A.** Add a HASH hint to the query.
- **B.** Add a LOOP hint to the query.
- **C.** Add a FORCESEEK hint to the query.
- **D.** Add an INCLUDE clause to the index.
- **E.** Add a FORCESCAN hint to the Attach query.
- **F.** Add a columnstore index to cover the query.
- **G.** Enable the optimize for ad hoc workloads option.
- **H.** Cover the unique clustered index with a columnstore index.
- **I.** Include a SET FORCEPLAN ON statement before you run the query.
- **J.** Include a SET STATISTICS PROFILE ON statement before you run the query.
- K. Include a SET STATISTICS SHOWPLAN_XML ON statement before you run the query.
 L. Include a SET TRANSACTION ISOLATION LEVEL REPEATABLE READ statement before you run the query.
- **M.** Include a SET TRANSACTION ISOLATION LEVEL SNAPSHOT statement before you run the query.
- **N.** Include a SET TRANSACTION ISOLATION LEVEL SERIALIZABLE statement before you run the query.

Answer: G

Reference: http://msdn.microsoft.com/en-us/library/cc645587.aspx

Question No: 155 - (Topic 2)

You administer a Microsoft SQL Server 2016 database named Orders.

Users report that during peak usage periods, certain operations are taking more time than expected. Your initial analysis suggests that blocking is the cause.

You need to gather more data to be able to determine which processes are being blocked and to identify the root cause.

What should you do?

- **A.** Schedule A SQL Agent job to run every 60 Seconds and insert the results of executing the SP_who2 stored procedure table
- **B.** Use System Monitor to catch the Lock Wait Time event
- **C.** Use Sp_Configure to set the blocked process threshold. Start a Trace using SQL Server Profiler to catch the Blocking Pro-Report event.
- **D.** Start a Trace using SQL Server Profiler to catch the Lock: Timeout event

Answer: C

Question No : 156 - (Topic 2)

You use a contained database named ContosoDb within a domain.

You need to create a user who can log on to the ContosoDb database. You also need to ensure that you can port the database to different database servers within the domain without additional user account configurations.

Which type of user should you create?

- A. SQL user without login
- **B.** User mapped to an asymmetric key
- C. Domain user
- **D.** login mapped to a virtual account

Answer: C

Question No: 157 - (Topic 2)

You administer a Microsoft SQL Server 2016 database named Contoso on a server named Server01.

You need to collect data for a long period of time to troubleshoot wait statistics when querying Contoso. You also need to ensure minimum impact to the server.

What should you create?

- A. An Alert
- B. A Resource Pool
- C. An Extended Event session
- D. A Server Audit Specification
- E. A SQL Profiler Trace
- F. A Database Audit Specification
- G. A Policy

Answer: C

Question No: 158 DRAG DROP - (Topic 2)

You administer a Windows Azure SQL Database database used for data warehouse operations.

The database contains a table named OrdersHistory, defined as follows:

```
CREATE TABLE OrdersHistory

(OrderID bigint NOT NULL,

CustomerID int NOT NULL,

ShippingAddressID int NOT NULL,

OrderDetails varchar(4000) NULL,

ShipDate date NULL)

CREATE NONCLUSTERED INDEX IX_OrdersHistory_OrderID

ON OrdersHistory (OrderID) INCLUDE (CustomerID, OrderDetails)

CREATE NONCLUSTERED INDEX IX_OrdersHistory_CustomerID_OrderID

ON OrdersHistory (CustomerID, OrderID) INCLUDE (OrderDetails)

CREATE NONCLUSTERED INDEX IX_OrdersHistory_Shipdate

ON OrdersHistory (ShipDate) INCLUDE (CustomerID, OrderID)
```

A weekly ETL (extract-transform-load) runs a large INSERT statement to add data into the OrdersHistory table. The process is taking a long time to complete. You discover that the bulk of the process is performing non-clustered index updates on the OrdersHistory table.

You need to improve the performance of the ETL process faster. You need to meet the following requirements:

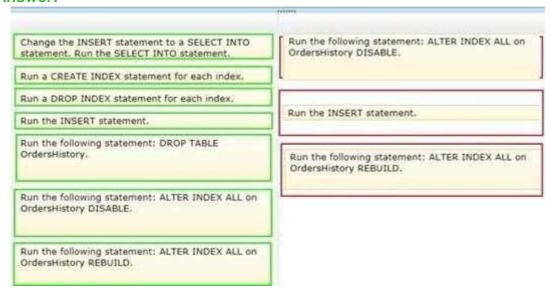
Avoid losing existing permissions on existing objects.

Use minimal administrative effort.

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:



Question No: 159 - (Topic 2)

You administer a Microsoft SQL Server 2016 database.

You configure Transparent Data Encryption (TDE) on the Orders database by using the following statements:

CREATE MASTER KEY ENCRYPTION BY PASSWORD = 'MyPassword1!'

CREATE CERTIFICATE TDE_Certificate WITH SUBJECT = 'TDE Certificate'; BACKUP CERTIFICATE TDE Certificate TO FILE = "d:\TDE Certificate.cer"

WITH PRIVATE KEY (FILE = 'D:\TDE Certificate.key', ENCRYPTION BY PASSWORD =

'MyPassword1!');

CREATE DATABASE ENCRYPTION KEY

WITH ALGORITHM = AES 256

ENCRYPTION BY SERVER CERTIFICATE TDE_Certificate;

ALTER DATABASE Orders SET ENCRYPTION ON:

You attempt to restore the Orders database and the restore fails. You copy the encryption file to the original location.

A hardware failure occurs and so a new server must be installed and configured.

After installing SQL Server to the new server, you restore the Orders database and copy the encryption files to their original location. However, you are unable to access the database.

You need to be able to restore the database.

Which Transact-SQL statement should you use before attempting the restore?

- A. ALTER DATABASE Master SET ENCRYPTION OFF:
- **B.** CREATE CERTIFICATE TDE_Certificate FROM FILE = 'd:\TDE_Certificate.cer' WITH PRIVATE KEY (FILE = 'D:\TDE_Certificate.key', DECRYPTION BY PASSWORD = 'MyPassword1!');
- **C.** CREATE CERTIFICATE TDE_Certificate WITH SUBJECT = 'TDE Certificate'; USE Orders;

CREATE DATABASE ENCRYPTION KEY

WITH ALGORITHM = AES 256

ENCRYPTION BY SERVER CERTIFICATE TDE Certificate;

D. CREATE CERTIFICATE TDE_Certificate FROM FILE = 'd:\TDE_Certificate.cer';

Answer: B

Question No: 160 - (Topic 2)

Which of the following is a valid data source which you can import into SQL Server 2016?

- A. Oracle data file
- B. .DOC file
- C. Access 2010
- D. Oracle export file

Answer: C

Explanation: References:

https://msdn.microsoft.com/en-us/library/ms141209%28v=sql.110%29.aspxv

Question No: 161 - (Topic 2)

Which of the following will show you a history of job errors that have occurred in jobs scheduled to run in an SQL Server 2016 installation?

- **A.** Look at the sys.all_job_hist table.
- **B.** In Management Studio, navigate to SQL Server Agent -> Error Logs and look at the log for the corresponding date.
- **C.** Open the c:\error\job.log file and search for the particular job and the errors you wish to view.
- **D.** You must use T-SQL to write a job-logging procedure to monitor jobs.

Answer: D

Question No: 162 - (Topic 2)

Which of the following transaction safety setting in SQL Server 2016 mirroring forces the mirror to be synchronized with the primary at all times?

- A. SAFETY FULL
- **B.** SAFETY OFF
- C. MIRROR SYNC

D. MIRROR 100

Answer: A

Explanation: References:

https://msdn.microsoft.com/en-us/library/ms189852%28v=sql.110%29.aspx

Question No : 163 - (Topic 2)

What is the maximum number of SQL Server 2016 Enterprise edition Database Engine instances that you can deploy on a non-clustered server running Windows Server 2008 R2 Enterprise edition?

A. 10 **B.**

25

C. 50

D. 100

Answer: C

Question No : 164 - (Topic 2)

You administer a SQL Server 2016 server that contains a database named SalesDB. SalesDb contains a schema named Customers that has a table named Regions. A user named UserA is a member of a role named Sales.

UserA is granted the Select permission on the Regions table and the Sales role is granted the Select permission on the Customers schema.

You need to ensure that the Sales role, including UserA, is disallowed to select from the Regions table.

Which Transact-SQL statement should you use?

A. REVOKE SELECT ON Schema::Customers FROM UserA

- B. REVOKE SELECT ON Object::Regions FROM UserA
- C. EXEC sp_addrolemember 'Sales', 'UserA'
- D. DENY SELECT ON Schema::Customers FROM Sales
- **E.** EXEC sp_droprolemember 'Sales', 'UserA'
- F. REVOKE SELECT ON Schema::Customers FROM Sales
- G. DENY SELECT ON Object::Regions FROM UserA
- H. REVOKE SELECT ON Object::Regions FROM Sales
- I. DENY SELECT ON Schema::Customers FROM UserA
- J. DENY SELECT ON Object::Regions FROM Sales

Answer: J

Explanation:

References: http://msdn.microsoft.com/en-us/library/ms188369.aspx http://msdn.microsoft.com/en-

us/library/ms187750.aspx http://msdn.microsoft.com/en-us/library/ff848791.aspx

Question No : 165 - (Topic 2)

You plan to install a Microsoft SQL Server 2016 instance.

The instance will support a database that has the following requirements:

- ⇒ Store Excel workbooks on the file system.
- → Access the workbooks through Transact-SQL.
- ⇒ Include the workbooks in database backups.

During installation, you need to ensure that the requirements will be met.

Which feature should you use?

- A. Excel Services
- **B.** FILESTREAM
- **C.** SQL Server Integration Services (SSIS)
- D. OpenXML

Answer: B

Question No: 166 - (Topic 2)

You administer a Microsoft SQL Server 2016 default instance.

The instance is hosted by a server that has a local firewall configureD. The firewall only allows inbound connections on port 1433. The server only hosts a single instance of SQL Server.

You need to ensure that the instance is configured to allow remote connections even if the SQL Server is unresponsive to client connections.

What should you do? Choose all that apply.

- **A.** Enable inbound connections on TCP port 1434 in the Windows Firewall on the server.
- **B.** Execute the following Transact-SQL command:
- sp_configure 'remote admin connections', C.

Execute the Reconfigure command.

- **D.** Execute the following Transact-SQL command:
- sp_configure 'remote access', 1
- **E.** Restart the SQL Server Agent Service.
- **F.** Enable inbound connections on TCP port 135 in the Windows Firewall on the server.

Answer: A,B,C Reference:

http://msdn.microsoft.com/en-us/library/ms191464.aspx

http://msdn.microsoft.com/en-us/library/ms190468.aspx

Question No: 167 - (Topic 2)

What is the minimum recommended amount of RAM for SQL Server 2016 Enterprise?

- **A.** 512 MB
- **B.** 1 GB **C.**

2 GB **D.**

4 GB

Answer: B

Question No : 168 - (Topic 2)

You administer a Microsoft SQL Server 2016 failover cluster.

You need to ensure that a failover occurs when the server diagnostics returns query_processing error.

Which server configuration property should you set?

- A. SqlOumperDumpFlags
- B. FailureConditionLevel
- **C.** HealthCheckTimeout
- D. SqlDumperDumpPath

Answer: B

Question No : 169 - (Topic 2)

Which of the following files keeps track of all transactions that occur in an SQL Server database?

- A. Transaction Log
- B. Redo Log
- C. Archive Log
- D. Data File

Answer: A

Explanation: References:

https://msdn.microsoft.com/enus/library/ms190925%28v=sql.110%29.aspx

Question No : 170 - (Topic 2)

You administer a Microsoft SQL Server 2016 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

Question No : 171 - (Topic 2)

You use Microsoft SQL Server 2016 to write code for a transaction that contains several statements.

There is high contention between readers and writers on several tables used by your transaction. You need to minimize the use of the tempdb space.

You also need to prevent reading queries from blocking writing queries.

Which isolation level should you use?

- A. SERIALIZABLE
- **B. SNAPSHOT**
- C. READ COMMITTED SNAPSHOT

D. REPEATABLE READ

Answer: B

Question No: 172 - (Topic 2)

If you are restoring and recovering a database, which of the following keywords must you specify if you intend to roll forward a transaction log backup after restoring a database?

- A. NOFINISH
- **B.** NORECOVERY
- C. TRANSACTIONLOG RECOVER
- D. NEXTLOG

Answer: B

Explanation: References:

https://msdn.microsoft.com/en-us/library/ms186858%28v=sql.110%29.aspx

Question No: 173 DRAG DROP - (Topic 2)

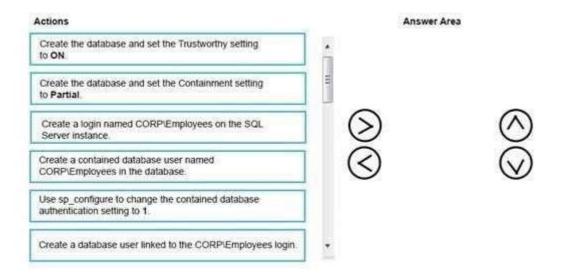
You are configuring a Microsoft SQL Server 2016 server and setting up a new database.

You need to ensure that the following requirements are met:

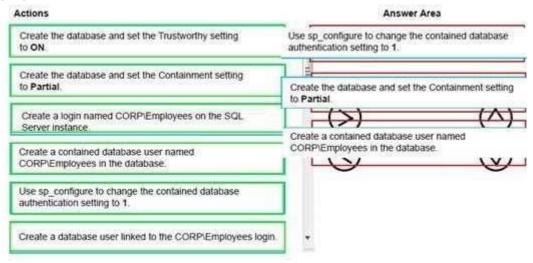
Provide access to the database for a Windows group named CORP\Employees.

The database can be moved to another server with no additional changes to the security configuration of the database or server.

What should you do? (To answer, move the appropriate action or actions from the list of actions to the answer area and arrange them in the correct order.)



Answer:



Explanation:

Use sp_configure to change the contained database authentication setting to 1 Create the database and set the Containment setting to **Partial**.

Create a contained database user named CORP/Employees in the database.

References: https://msdn.microsoft.com/enus/library/ff929139%28v=sql.110%29.aspx http://www.sqlcoffee.com/SQLServer2012_0009.htm

Question No: 174 - (Topic 2)

You administer a database that has User A, B and C.

User A must be able to create new tables and stored procedures, User B must be able to select, update, delete and insert data.

User C must be able to provide windows logins to the database

To which role or roles should you add the users?

- A. db_accessadmin
- **B.** db_ddladmin
- C. db_datawriter
- D. db_datareader
- E. db_owner

Answer: A,B,C,D

Question No : 175 - (Topic 2)

Which of the following is NOT a method of failover for an SQL Server 2016 mirror?

- A. Automatic Failover
- B. Manual Failover
- C. Forced Failover
- D. Intermediate Failover

Answer: D

Question No : 176 - (Topic 2)

You are a database developer of a Microsoft SQL Server 2016 database. You are designing a table that will store Customer data from different sources. The table will include a column that contains the CustomerID from the source system and a column that contains the SourceID. A sample of this data is as shown in the following table.

SourceID	CustomerID	Customer Name
1	234	John Smith
3	7345	Jason Warren
3	4402	Susan Burk
2	866	Michael Allen

You need to ensure that the table has no duplicate CustomerID within a SourceID. You also need to ensure that the data in the table is in the order of SourceID and then CustomerID. Which Transact- SQL statement should you use?

A. CREATE TABLE Customer

(SourceID int NOT NULL IDENTITY,

CustomerID int NOT NULL IDENTITY,

CustomerName varchar(255) NOT NULL); B.

CREATE TABLE Customer

(SourceID int NOT NULL,

CustomerID int NOT NULL PRIMARY KEY CLUSTERED,

CustomerName varchar(255) NOT NULL); C.

CREATE TABLE Customer

(SourceID int NOT NULL PRIMARY KEY CLUSTERED,

CustomerID int NOT NULL UNIQUE,

CustomerName varchar(255) NOT NULL); D.

CREATE TABLE Customer

(SourceID int NOT NULL,

CustomerID int NOT NULL,

CustomerName varchar(255) NOT NULL,

CONSTRAINT PK Customer PRIMARY KEY CLUSTERED

(SourceID, CustomerID));

Answer: D

Question No : 177 - (Topic 2)

You administer a Microsoft SQL Server 2016 instance that has several SQL Server Agent jobs configured.

When SQL Server Agent jobs fail, the error messages returned by the job steps do not provide the required detail.

The following error message is an example error message:

"The job failed. The Job was invoked by User CONTOSO\ServiceAccount. The last step to run was step 1 (Subplan_1)."

You need to ensure that all available details of the job step failures for SQL Server Agent jobs are retained.

What should you do?

- **A.** Configure output files.
- **B.** Expand agent logging to include information from all events.
- **C.** Disable the Limit size of job history log feature.
- **D.** Configure event forwarding.

Answer: B

Reference: http://msdn.microsoft.com/en-us/library/ms175488.aspx

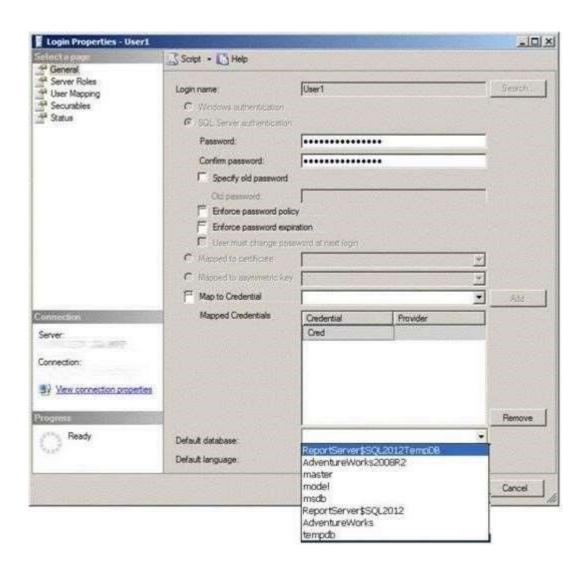
Question No: 178 HOTSPOT - (Topic 2)

You administer a Microsoft SQL Server 2016 instance.

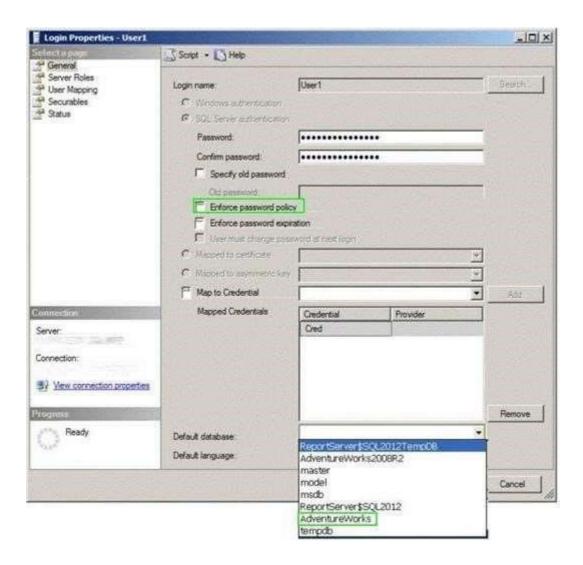
You need to configure an existing SQL Authenticated Login that meets the following requirements:

- ⇒ Enforces password policy
- No password expiration enforcement
- → Resets the default database to AdventureWorks database

Which option or options should you choose in the Login Properties of the login for User1? (To answer, configure the appropriate option or options in the dialog box in the answer areA.)



Answer:



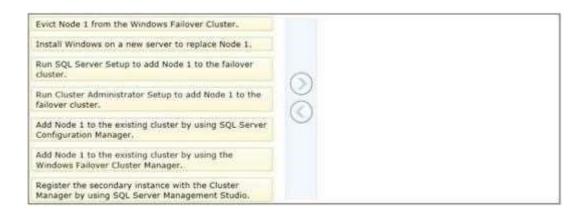
Question No: 179 DRAG DROP - (Topic 2)

You administer a Microsoft SQL Server 2016 clustered instance that has two nodes named Node 1 and Node 2.

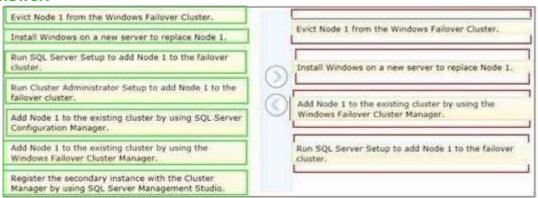
Node 1 fails and the cluster fails over to Node 2.

You need to replace Node 1 and add it to the cluster.

Which four 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:



Question No: 180 - (Topic 2)

You administer a Microsoft SQL Server 2016 database. You want to make a full backup of the database to a file on disk.

In doing so, you need to output the progress of the backup.

Which backup option should you use?

- A. STATS
- **B.** COMPRESSION
- C. CHECKSUM
- D. IN IT

Answer: A



Question No: 181 DRAG DROP - (Topic 2)

You administer a Microsoft SQL Server database. Service accounts for SQL Agent are configured to use a local user.

A Microsoft SQL Server Integration Services (SSIS) job step has been created within a SQL Server Agent job.

The SSIS package accesses a network share when exporting data from a SQL Server database.

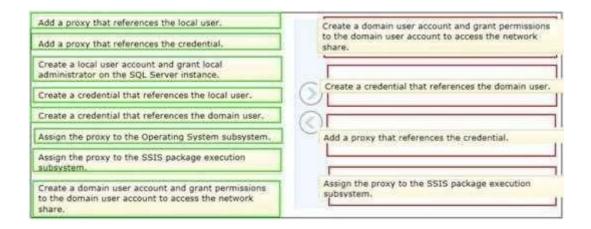
When you execute the SQL Server Agent job, it fails due to a permissions failure on a share on a remote server.

You need to ensure that the SQL Server Agent job can execute the SSIS package.

Which four 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.)

dd a proxy that references the local user.
Add a proxy that references the credential.
Create a local user account and grant local administrator on the SQL Server instance.
Create a credential that references the local user.
Create a credential that references the domain user.
Assign the proxy to the Operating System subsystem.
Assign the proxy to the SSIS package execution subsystem.
Create a domain user account and grant permissions to the domain user account to access the network share.

Answer:



Question No: 182 - (Topic 2)

You have configured Resource Governor with three resource pools.

You have assigned the first resource pool a minimum CPU and memory value of 20%.

You have assigned the second resource pool a minimum CPU and memory value of 30%.

You want to assign maximum CPU and memory values to the third resource pool.

What is the maximum CPU and memory value you can assign to this resource pool?

A. 30% **B.**

50%

C. 70%

D. 100%

Answer: B

Question No: 183 - (Topic 2)

You are a database administrator for a Microsoft SQL Server 2016 instance.

You need to ensure that data can be replicated from a production server to two reporting servers in real time.

You also need to ensure that data on the reporting server is always accessible.

Which solution should you use?

- A. Availability Groups
- **B.** Extended Events
- C. Snapshot Replication
- D. Policy Based Management

Answer: A

Question No: 184 DRAG DROP - (Topic 2)

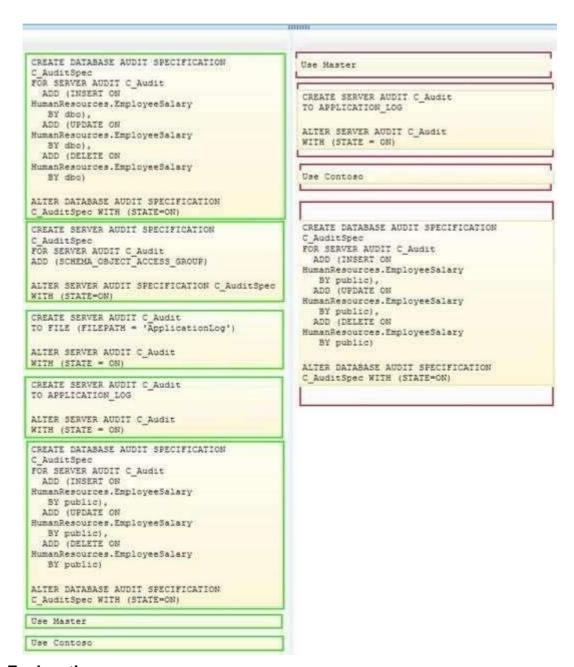
You administer a Microsoft SQL Server 2016 server that has a database named Contoso. The Contoso database has a table named EmployeeSalary in a schema named HumanResources.

You need to create a script that writes audit events into the application log whenever data in the EmployeeSalary table is modified.

Which four Transact-SQL statements should you use? (To answer, move the appropriate statements from the list of statements to the answer area and arrange them in the correct order.)

```
CREATE DATABASE AUDIT SPECIFICATION
C_AuditSpec
FOR SERVER AUDIT C_Audit
 ADD (INSERT ON
HumanResources. EmployeeSalary
  BY dbo),
ADD (UPDATE ON
HumanResources. EmployeeSalary
 BY dbo),
ADD (DELETE ON
HumanResources. EmployeeSalary
   BY dbo)
ALTER DATABASE AUDIT SPECIFICATION
C_AuditSpec WITH (STATE=ON)
CREATE SERVER AUDIT SPECIFICATION
C_AuditSpec
FOR SERVER AUDIT C_Audit
ADD (SCHEMA_OBJECT_ACCESS_GROUP)
ALTER SERVER AUDIT SPECIFICATION C_AuditSpec WITH (STATE=ON)
CREATE SERVER AUDIT C Audit
TO FILE (FILEPATH = 'ApplicationLog')
ALTER SERVER AUDIT C_Audit
WITH (STATE - ON)
CREATE SERVER AUDIT C_Audit
TO APPLICATION_LOG
ALTER SERVER AUDIT C_Audit
WITH (STATE = ON)
CREATE DATABASE AUDIT SPECIFICATION
C AuditSpec
FOR SERVER AUDIT C_Audit
  ADD (INSERT ON
HumanResources.EmployeeSalary
  SY public),
ADD (UPDATE ON
HumanResources. EmployeeSalary
  BY public),
ADD (DELETE ON
HumanResources. EmployeeSalary
  BY public)
ALTER DATABASE AUDIT SPECIFICATION C_AUDITSpec WITH (STATE=ON)
Use Master
Use Contoso
```

Answer:



Explanation:

Box 1: Use Master

Box 2:

```
CREATE SERVER AUDIT C_Audit
TO APPLICATION_LOG

ALTER SERVER AUDIT C_Audit
WITH (STATE = ON)
```

Box 3: Use Contoso Box

4:

```
CREATE DATABASE AUDIT SPECIFICATION

C_AuditSpec

FOR SERVER AUDIT C_Audit

ADD (INSERT ON

HumanResources.EmployeeSalary

BY public),

ADD (UPDATE ON

HumanResources.EmployeeSalary

BY public),

ADD (DELETE ON

HumanResources.EmployeeSalary

BY public)

ALTER DATABASE AUDIT SPECIFICATION

C_AuditSpec WITH (STATE=ON)
```

Note:

- * An audit must exist before creating a server audit specification for it. When a server auditspecification is created, it is in a disabled state.
- * The general process for creating and using an audit is as follows.
 - Create an audit and define the target.
 - Create either a server audit specification or database audit specification that maps to the audit. Enable the audit specification.
 - ⇒ Enable the audit.
 - ⇒ Read the audit events by using the Windows Event Viewer, Log File Viewer, or the fn_get_audit_file function.

* (Box 2) Example:

Creating a server audit with a Windows Application log target with options CREATE SERVER AUDIT HIPAA_Audit
TO APPLICATION_LOG
WITH (QUEUE_DELAY = 1000, ON_FAILURE = SHUTDOWN);

* Box 4 Example:

/*Creates a server audit specification called "HIPPA_Audit_Specification" that audits failed logins for the SQL Server audit "HIPPA_Audit" created above.
*/

CREATE SERVER AUDIT SPECIFICATION HIPPA_Audit_Specification FOR SERVER AUDIT HIPPA_Audit ADD (FAILED_LOGIN_GROUP); GO

-- Enables the audit.

ALTER SERVER AUDIT HIPAA_Audit WITH (STATE = ON);

Question No : 185 - (Topic 2)

You maintain several databases on a 32-bit Microsoft SQL Server 2005 instance on a Windows Server 2008 R2 64-bit server.

You need to migrate the databases to a 64-bit SQL Server 2016 instance on the same server. You also need to ensure that the new Transact-SQL functionality in SQL Server 2016 can be used in the database after the migration.

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

- **A.** Perform a side-by-side installation of a 32-bit SQL Server 2016 instance.
- **B.** Perform a side-by-side installation of a 64-bit SQL Server 2016 instance.
- C. Perform an in-place upgrade to 64-bit SQL Server 2016.
- **D.** Detach the database from the old instance and attach it to the new instance.
- **E.** Change the compatibility level of the database.

Answer: B,D,E Reference:

Use detach and attach operations to upgrade a SQL Server 2005, SQL Server 2008 or SQL Server 2008 R2 database in SQL Server 2016. After being attached to SQL Server 2016, the database is available immediately and is automatically upgraded.

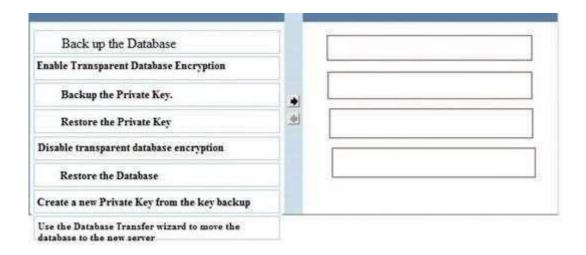
Question No: 186 DRAG DROP - (Topic 2)

You administer a Microsoft SQL Server database instance that uses transparent database encryption.

You plan to move the database from the current server to a new server by using Backup and Restore.

You need to ensure that the database can be restored to the new server. You also need to ensure that the database remains encrypted at all times.

Which four 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:



Question No: 187 - (Topic 2)

You are planning on deploying a server that will be dedicated for ETL (Extraction, Transformation, and Loading) processes.

You want to ensure that SSIS (SQL Server Integration Services) packages will run on this dedicated ETL server and not on any other server on which they were started. Which of the following features must you install on the ETL server in addition to SSIS to accomplish this goal?

- A. Database Engine
- **B.** SQL Server Reporting Services
- C. SQL Server Analysis Services
- D. Client Tools SDK

Answer: A

Question No: 188 - (Topic 2)

You administer a Microsoft SQL Server 2016.

A process that normally runs in less than 10 seconds has been running for more than an hour.

You examine the application log and discover that the process is using session ID 60.

You need to find out whether the process is being blocked.

Which Transact-SQL statement should you use?

- A. SELECT * FROM sys.dm_exec_sessions WHERE session_id = 60
- **B.** DBCC INPUTBUFFER (60)
- C. EXEC sp_helpdb 60
- **D.** SELECT * FROM sys.dm_exec_request WHERE session_id = 60

Answer: D

Question No : 189 - (Topic 2)

Which of the following SQL Server 2016 indexes is ordered independently of the actual physical order of the table data on which the index is based?

- A. CLUSTERED
- **B.** BITMAP
- C. NONCLUSTERED
- D. IND_ORDERED

Answer: C

Explanation: References:

https://msdn.microsoft.com/en-us/library/ms188783%28v=sql.110%29.aspx

Question No: 190 - (Topic 2)

You administer a Windows Azure SQL Database database named Inventory that contains a stored procedure named p_AddInventory.

Users need to be able to SELECT from all tables in the database and execute the stored procedure.

You need to grant only the necessary permissions.

What should you do?

- **A.** Grant EXECUTE permission on p_AddInventory to all users. Grant VIEW DEFINITION to all users.
- **B.** Grant EXECUTE permission on p_AddInventory to all users. Add all users to the db datawriter role.
- **C.** Add all users to the db_owner role.

D. Grant EXECUTE permission on p_AddInventory to all users. Add all users to the db datareader role.

Answer: D

Question No : 191 - (Topic 2)

You administer two Microsoft SQL Server 2016 servers. Each server resides in a different, untrusted domain.

You plan to configure database mirroring.

You need to be able to create database mirroring endpoints on both servers.

What should you do?

- **A.** Configure the SQL Server service account to use Network Service.
- **B.** Use a server certificate.
- **C.** Use a database certificate.
- **D.** Configure the SQL Server service account to use Local System.

Answer: B

Question No : 192 - (Topic 2)

You use Microsoft SQL Server 2016 to develop a database application. You need to create an object that meets the following requirements:

- → Takes an input variable
- Returns a table of values
- Cannot be referenced within a view

Which object should you use?

- A. Scalar-valued function
- **B.** Inline function

- C. User-defined data type
- D. Stored procedure

Answer: D

Question No : 193 - (Topic 2)

Which of the following is NOT a database role that you can assign users in SQL Server 2016?

- **A.** db_ddladmin
- B. db_owner
- C. db_datawriter
- D. db_databaseadmin

Answer: D

Explanation: References:

https://msdn.microsoft.com/en-us/library/ms189121%28v=sql.110%29.aspx

Question No : 194 - (Topic 2)

You administer a SQL Server 2016 database instance.

You need to configure the SQL Server Database Engine service on a failover cluster.

Which user account should you use?

- A. The BUILTIN\LocalService account
- B. A domain user
- **C.** A local administrative user
- D. The BUILTIN\NetworkService account

Answer: B

Question No: 195 - (Topic 2)

You administer a Microsoft SQL Server 2016 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 restoring state.

Which option of the BACKUP LOG command should you use?

- A. NO_TRUNCATE
- **B.** NORECOVERY
- C. STANDBY
- D. FORMAT

Answer: B

Question No: 196 HOTSPOT - (Topic 2)

You administer a Microsoft SQL Server database.

The database is in the Simple recovery mode.

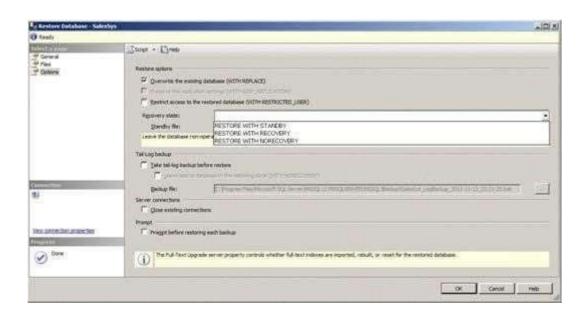
You schedule the following backup plan:

- ⇒ Full backup every day at midnight
- ⇒ Differential backups every hour on the hour, except at midnight

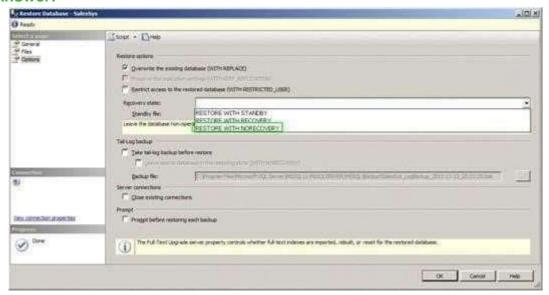
The database fails at 20:45 hours.

You need to use SQL Server Management Studio (SSMS) to begin restoring the database to a new server instance with a minimum amount of data loss.

Which options should you select on the Options page of the Restore Database window? (To answer, configure the appropriate option or options in the dialog box in the answer area.)



Answer:



Question No : 197 - (Topic 2)

You administer a Microsoft SQL Server 2016 database.

You have a SQL Server Agent job instance that runs using the service account. You have a job step within the job that requires elevated privileges.

You need to ensure that the job step can run using a different user account.

What should you use?

- A. a schedule
- B. an alert
- C. an operator
- **D.** a proxy

Answer: D

Question No : 198 - (Topic 2)

Which of the following SQL Server 2016 tools coordinates transactions across SQL Servers in a clustered environment?

- A. SQL Server Profiler
- B. SQL Server Query Optimizer
- C. SQL Server Management Studio
- D. Microsoft Distributed Transaction Coordinator

Answer: D

Explanation: References:

http://blogs.msdn.com/b/alwaysonpro/archive/2014/01/15/msdtc-recommendationsonsqlfailover-cluster.aspx

Question No : 199 - (Topic 2)

You work as a Database Administrator (DBA) at ABC.com. The infrastructure includes servers running Windows Server 2008 R2 and Microsoft SQL Server 2016. The company uses several custom applications that store data in databases on the Microsoft SQL Server

2012 servers.

A full backup of all databases is taken every night at midnight.

A differential backup of all databases is taken on the hour every hour starting at 3am until the last backup at 11pm.

A log backup is taken every 15 minutes for databases configured with the Full Recovery Model.

One application named ABCApp1 stores data in a database named ABCApp1DB.

ABCApp1DB is configured with the Simple Recovery Model. ABCApp1DB fails at 3:25am.

You discover that the last differential backup of ABCApp1DB failed.

You need to restore ABCApp1DB from backup as quickly as possible and minimize data loss.

Which of the following steps should you perform to restore ABCApp1DB? (Choose one or more answers).

- **A.** Restore the latest full backup.
- **B.** Restore the latest differential backup
- **C.** Restore the latest log backup
- **D.** Restore each differential backup taken since the last full backup.
- **E.** Restore each log backup since the last full backup.

Answer: A

Question No : 200 - (Topic 2)

You want to remove SQL Server Integration Services from a server running the Windows Server 2008 R2 operating system that also has the Database Engine and SQL Server Analysis Services installed.

Which of the following tools can you use to accomplish this goal?

- A. SQL Server Management Studio
- **B.** SQL Server Configuration Manager
- C. Add/Remove Programs in Control Panel
- D. SQL Server Installation Center

Answer: C

Question No : 201 - (Topic 2)

Which of the following statements will create an index called "SalesDate" on the DATEOFSALE column on the SALES table residing in the WAREHOUSE database?

- A. CREATE INDEX SalesDate ON SALES (DATEOFSALE);
- **B.** MAKE INDEX SalesDate ON SALES (DATEOFSALE);
- C. CREATE INDEX ON SALES (DATEOFSALE);
- D. CREATE INDEX SalesDate ON SALES +DATEOFSALE;

Answer: A

Explanation: References: https://msdn.microsoft.com/en-us/library/ms188783%28v=sql.110%29.aspx

Question No: 202 - (Topic 2)

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:

https://msdn.microsoft.com/en-us/library/ms189275%28v=sql.110%29.aspx

Question No: 203 - (Topic 2)

You administer a Microsoft SQL Server 2016 database instance.

You plan to migrate the database to Windows Azure SQL Database. You verify that all objects contained in the database are compatible with Windows Azure SQL Database.

You need to ensure that database users and required server logins are migrated to Windows Azure SQL Database.

What should you do?

- A. Use the copy database wizard
- B. Use the Database Transfer wizard
- **C.** Use SQL Server Management Studio to deploy the database to Windows Azure SQL Database
- **D.** Backup the database from the local server and restore it to Windows Azure SQL Database

Answer: C

Question No : 204 - (Topic 2)

You develop a database for a travel application.

You need to design tables and other database objects.

You create a stored procedure.

You need to supply the stored procedure with multiple event names and their dates as parameters.

What should you do?

- A. Use the CAST function.
- **B.** Use the DATE data type.
- **C.** Use the FORMAT function.
- **D.** Use an appropriate collation.
- **E.** Use a user-defined table type.
- **F.** Use the VARBINARY data type.
- **G.** Use the DATETIME data type.
- **H.** Use the DATETIME2 data type.
- **I.** Use the DATETIMEOFFSET data type.
- J. Use the TODATETIMEOFFSET function.

Answer: E

Question No: 205 - (Topic 2)

You administer a Microsoft SQL Server 2016 database named Contoso on a server named Server01.

You need to write messages to the Application Log when users are added to or removed from a fixed server role in Server01.

What should you create?

- A. A Database Audit Specification
- B. A Policy
- C. An Alert
- D. A SQL Profiler Trace
- E. A Resource Pool
- F. An Extended Event session
- G. A Server Audit Specification

Answer: G

Reference: http://technet.microsoft.com/en-us/library/cc280663(v=sql.105).aspx

Question No: 206 - (Topic 2)

You administer a Windows Azure SQL Database database named Orders.

You need to create a copy of Orders named Orders Reporting.

Which Transact-SQL command should you use?

- **A.** BACKUP DATABASE Orders TO DISK = 'D:\Orders.bak' RESTORE DATABASE Orders_Reporting FROM DISK = 'D:\Orders.bak
- **B.** BACKUP DATABASE Orders TO DISK = 'D:\Orders.bak' CREATE DATABASE Orders_Reporting FROM DISK = 'D:\Orders.bak
- C. CREATE DATABASE Orders_Reporting AS COPY OF Orders
- D. BACKUP DATABASE Orders TO DISK = 'D:\Orders.bak' MIRROR TO DISK = 'Orders_Reporting

Answer: C

Question No : 207 - (Topic 2)

Which of the following conditions must exist prior to restoring a system database in SQL Server 2016?

- **A.** The hard drive must be reformatted.
- **B.** You must detach the user databases from the SQL 2012 instance.
- **C.** The SQL Server 2016 instance must be started in single-user mode.
- **D.** The SQL Server 2016 instance must be removed.

Answer: C

Explanation: References:

https://msdn.microsoft.com/enus/library/ms188236(v=sql.110).aspx

Question No : 208 - (Topic 2)

You install a Microsoft SQL Server 2016 instance. The instance will store data extracted from two database running on windows Azure SQL Database.

You hire a data steward to perform interactive data cleaning and ad hoc querying and updating of the data.

You need to ensure that the data steward is given the correct client tools to perform these tasks.

Which set of tools should you install?

- A. SQL Server Management Studio and Distributed Reply Client
- B. Master Data Services and Data Quality Client
- C. Data Quality Client and Distributed Replay Client
- D. Data Quality Client and SQL Server Management Studio

Answer: D

Question No : 209 - (Topic 2)

You want to reproduce the same SQL Server 2016 installation configuration across five servers.

Which of the following files will you generate by using SQL Server Setup to accomplish this goal?

- A. Configuration.xml
- **B.** Setup.ini
- **C.** Setup.xml
- D. ConfigurationFile.ini

Answer: D

Question No : 210 DRAG DROP - (Topic 2)

You use a Microsoft SQL Server 2016 database. You need to create an indexed view within the database for a report that displays Customer Name and the total revenue for that customer.

Which four T-SQL statements should you use? (To answer, move the appropriate SQL statements from the list of statements to the answer area and arrange them in the correct order.)

Answer Choices Title

Order List Title

CREATE VIEW
Sales.vwCustomerRevenue
AS
WITH SCHEMABINDING

CREATE VIEW
Sales.vwCustomerRevenue
WITH SCHEMABINDING
AS

SELECT

O.CustomerID
, C.CustomerName
, SUM (O.SubTotal) AS
Customer Total
, COUNT_BIG (*) AS
RecCount
FROM
Sales.SalesOrderHeader AS
O
JOIN Sales.Customer AS C
ON C.CustomerID =
O.CustomerID

GROUP BY O.CustomerID . C.CustomerName

GO
CREATE UNIQUE
CLUSTERED INDEX
idx_vwCustomerRevenue
ON
Sales.vwCustomerRevenue
(CustomerID);

GO
CREATE UNIQUE INDEX
idx_vwCustomerRevenue
ON
Sales.vwCustomerRevenue
(CustomerID);

Order List Title

CREATE VIEW
Sales.vwCustomerRevenue
AS
WITH SCHEMABINDING

CREATE VIEW
Sales.vwCustomerRevenue
WITH SCHEMABINDING
AS

SELECT
O.CustomerID
, C.CustomerName
, SUM (O.SubTotal) AS
Customer Total
, COUNT_BIG (*) AS
RecCount
FROM
Sales.SalesOrderHeader AS
O
JOIN Sales.Customer AS C
ON C.CustomerID =

GROUP BY O.CustomerID , C.CustomerName

O.CustomerID

GO

CREATE UNIQUE
CLUSTERED INDEX
idx_vwCustomerRevenue
ON
Sales.vwCustomerRevenue
(CustomerID);

GO
CREATE UNIQUE INDEX
idx_vwCustomerRevenue
ON
Sales.vwCustomerRevenue
(CustomerID);

Answer Choices Title

CREATE VIEW
Sales.vwCustomerRevenue
WITH SCHEMABINDING
AS

SELECT
O.CustomerID
, C.CustomerName
, SUM (O.SubTotal) AS
Customer Total
, COUNT_BIG (*) AS
RecCount
FROM
Sales.SalesOrderHeader AS
O
JOIN Sales.Customer AS C
ON C.CustomerID =
O.CustomerID

GROUP BY O.CustomerID , C.CustomerName

GO
CREATE UNIQUE
CLUSTERED INDEX
idx_vwCustomerRevenue
ON
Sales.vwCustomerRevenue
(CustomerID);

Question No: 211 - (Topic 2) You have three tables that contain data for vendors, customers, and agents. You create a view that is used to look up telephone numbers for these companies.

The view has the following definition:

```
Create view apt.vwCompanyPhoneList
(Source, CompanyID, CompanyNumber,
 LastName, FirstName, BusinessName, Phone)
as
SELECT 'Customer' as Source
 , CustomerID
  , CustomerNumber
  , CustomerLastName
  , CustomerFirstName
  , CustomerBusinessName
  , Phone
FROM apt.Customer
UNION ALL
SELECT 'Agent' as Source
 , AgentID
  , AgentNumber
  , AgentLastName
  , AgentFirstName
  , AgentBusinessName
  . Phone
FROM apt.Agent
UNION ALL
SELECT 'Vendor' as Source
  , VendorID
  , VendorNumber
  , VendorLastName
  , VendorFirstName
  , VendorBusinessName
  , Phone
FROM apt. Vendor
GO
```

You need to ensure that users can update only the phone numbers by using this view. What should you do?

- **A.** Alter the view. Use the EXPAND VIEWS query hint along with each SELECT statement.
- **B.** Drop the view. Re-create the view by using the SCHEMABINDING clause, and then create an index on the view.
- **C.** Create an AFTER UPDATE trigger on the view.
- **D.** Create an INSTEAD OF UPDATE trigger on the view.

Answer: D

Question No : 212 - (Topic 2)

You administer a Windows Azure SQL Database database named Human_Resources. The database contains 2 tables named Employees and SalaryDetails.

You add two Windows groups as logins for the server:

- CORP\Employees All company employees
- → CORP\HRAdmins HR administrators only
- → HR Administrators are also company employees.

You need to grant users access according to the following requirements:

- CORP\Employees should have SELECT access to the Employees table.
- Only users in CORP\HRAdmins should have SELECT access to the SalaryDetails table.
- Logins are based only on Windows security groups.

What should you do?

Α.

Create a database role called Employees.

Add CORP\Employees to the db_datareader role.

Add all company employees except HR administrators to the Employees role.

Deny SELECT access to the SalaryDetails table to the Employees role.

B.

Create a database role called HRAdmins.

Add all company employees except HR administrators to the db_datareader role, Add all HR administrators to the HRAdmins role.

Grant SELECT access to the SalaryDetails table to the HRAdmins role.

Deny SELECT access to the SalaryDetails table to the db_datareader role.

C.

Create two database roles: Employees and HRAdmins.

Add all company employees to the Employees role.

Add HR administrators to the HRAdmins role.

Grant SELECT access to all tables except SalaryDetails to the Employees role.

Grant SELECT access to the SalaryDetails table to the HRAdmins role. **D.**

Create a database role called Employees.

Add all HR administrators to the db_datareader role.

Add all company employees to the Employees role.

Grant SELECT access to all tables except the SalaryDetails table to the Employees role.

Deny SELECT access to the SalaryDetails table to the Employees role.

Answer: C

Question No: 213 - (Topic 2)

You administer a Microsoft SQL Server 2016 Enterprise Edition server that uses 64 cores.

You discover performance issues when complex calculations are performed on large amounts of data under heavy system load.

You need to limit the number of cores that handle the processing.

What should you configure?

- A. Max worker threads
- **B.** Processor affinity
- C. I/O affinity
- **D.** Lightweight pooling

Answer: B

Question No : 214 - (Topic 2)

In which of the following statements about audit information stored in an SQL Server 2016 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: https://msdn.microsoft.com/en-

us/library/cc280525(v=sql.110).aspx

Question No : 215 - (Topic 2)

You administer a single server that contains a Microsoft SQL Server 2016 default instance on which several production databases have been deployed.

You plan to install a new ticketing application that requires the deployment of a database on the server. The SQL login for this application requires sysadmin permissions.

You need to ensure that the login for the ticketing application cannot access other production databases.

What should you do?

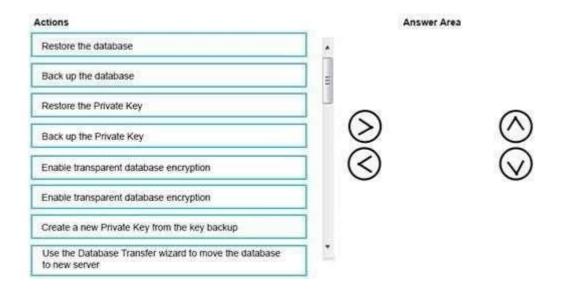
- A. Use the SQL Server default instance and enable Contained Databases.
- **B.** Use the SQL Server default instance and configure a user-defined server role. Add the login for the ticketing application to this role.
- **C.** Install a new named SQL Server instance on the server.
- D. Install a new default SQL Server instance on the server.

Answer: C

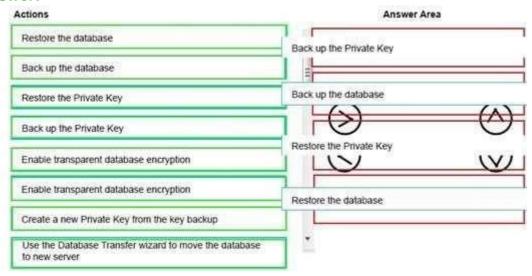
Question No : 216 DRAG DROP - (Topic 2)

You administer a Microsoft SQL Server 2016 database instance that uses transparent database encryption.

You plan to move the database from the current server to a new server by using Backup and Restore.



Answer:



Explanation:

Backup the Private Key

Backup the Database

Restore the Private Key

Restore the Database

References: http://sqlsailor.com/2011/12/29/tdetransparent-data-encryption-in-sqlserver-2012-rc-0/

Question No : 217 - (Topic 2)

You develop a database for a travel application.

You need to design tables and other database objects.

You create the Airline Schedules table.

You need to store the departure and arrival dates and times of flights along with time zone information.

What should you do?

- **A.** Use the CAST function.
- **B.** Use the DATE data type.
- **C.** Use the FORMAT function.
- **D.** Use an appropriate collation.
- **E.** Use a user-defined table type.
- **F.** Use the VARBINARY data type.
- **G.** Use the DATETIME data type.
- **H.** Use the DATETIME2 data type.
- **I.** Use the DATETIMEOFFSET data type.
- **J.** Use the TODATETIMEOFFSET function.

Answer: I Reference:

http://msdn.microsoft.com/en-us/library/ff848733.aspx

http://msdn.microsoft.com/en-us/library/bb630289.aspx

Question No: 218 DRAG DROP - (Topic 2)

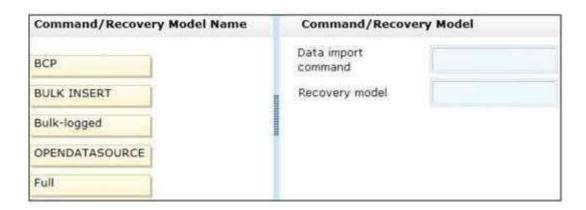
You administer a Microsoft SQL Server database.

You want to import data from a text file to the database.

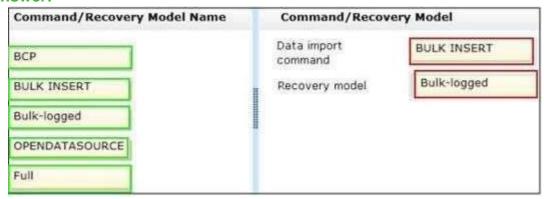
You need to ensure that the following requirements are met:

- Data import is performed by using a stored procedure.
- ⇒ Data is loaded as a unit and is minimally logged.

Which data import command and recovery model should you choose? (To answer, drag the appropriate data import command or recovery model to the appropriate location or locations in the answer area. Each data import command or recovery model 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.)



Answer:



Question No: 219 DRAG DROP - (Topic 2)

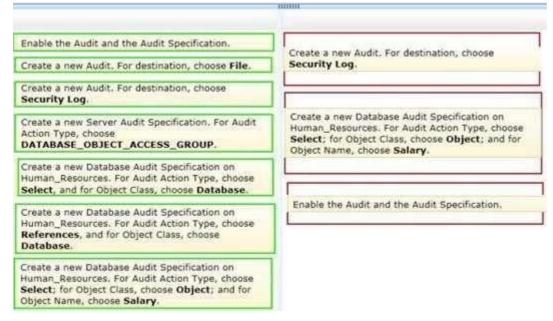
You administer a Microsoft SQL Server 2016 database called Human_Resources. The database contains a table named dbo.Salary.

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:



Explanation:

Box 1:

Create a new Audit. For destination, choose Security Log.

Box 2:

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.

Box 3:

Enable the Audit and the Audit Specification.

Note:

- * An audit must exist before creating a server audit specification for it. When a server auditspecification is created, it is in a disabled state.
- * The general process for creating and using an audit is as follows.
 - Create an audit and define the target.
 - Create either a server audit specification or database audit specification that maps to the audit. Enable the audit specification.
 - ⇒ Enable the audit.
 - Read the audit events by using the Windows Event Viewer, Log File Viewer, or the fn_get_audit_file function.
- * 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. Employee PayHistory BY dbo)

WITH (STATE = ON);

GO

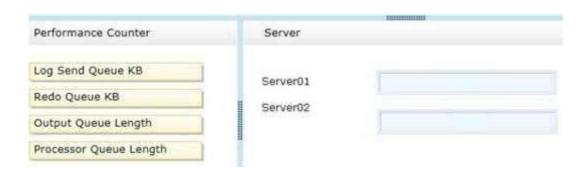
Question No: 220 DRAG DROP - (Topic 2)

You are a database administrator for a Microsoft SQL Server 2016 environment that contains two SQL Server instances named Server01 and Server02. The Contoso database is located on Server01. Through database mirroring, a copy of the Contoso database is on Server02.

During the last manual failover of database mirroring, the recovery took longer than usual.

You need to determine where the synchronization bottleneck is for the database mirroring topology.

Which performance counter or counters should you use for each server? (To answer, drag the appropriate performance counter or counters to their corresponding server or servers in the answer area. Answer choices may be used once, more than once, or not at all. Answer targets may be used once or not at all. Additionally, you may need to drag the split bar between panes or scroll to view content.)



Answer:



Explanation: https://msdn.microsoft.com/en-us/library/ms189931.aspx

Log Send Queue KB	Total number of kilobytes of log that have not yet been sent to the mirror server.
Mirrored Write Transactions/sec	Number of transactions that wrote to the mirrored database and waited for the log to be sent to the mirror in order to commit, in the last second.
	This counter is incremented only when the principal server is actively sending log records to the mirror server.
Pages Sent/sec	Number of pages sent per second.
Receives/sec	Number of mirroring messages received per second.
Redo Bytes/sec	Number of bytes of log rolled forward on the mirror database per second.
Redo Queue KB	Total number of kilobytes of hardened log that currently remain to be applied to the mirror database to roll it forward. This is sent to the Principal from the Mirror.

Question No: 221 - (Topic 2)

You administer a Microsoft SQL Server 2016 instance.

You need to configure a new database to support FILETABLES.

What should you do? Choose all that apply.

- 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: B,D,F

Reference: http://msdn.microsoft.com/en-us/library/gg509097.aspx

Question No: 222 - (Topic 2)

Your database contains tables named Products and ProductsPriceLog. The Products table contains columns named ProductCode and Price. The ProductsPriceLog table contains columns named ProductCode, OldPrice, and NewPrice. The ProductsPriceLog table stores the previous price in the OldPrice column and the new price in the NewPrice column.

You need to increase the values in the Price column of all products in the Products table by

5 percent.

You also need to log the changes to the ProductsPriceLog table.

Which Transact-SQL query should you use?

A. UPDATE Products SET Price = Price * 1.05
OUTPUT inserted.ProductCode, deleted.Price, inserted.Price
INTO ProductsPriceLog(ProductCode, OldPrice, NewPrice)
B. UPDATE Products SET Price = Price * 1.05
OUTPUT inserted.ProductCode, inserted.Price, deleted.Price
INTO ProductsPriceLog(ProductCode, OldPrice, NewPrice)
C. UPDATE Products SET Price = Price * 1.05
OUTPUT inserted.ProductCode, deleted.Price, inserted.Price *
INTO ProductsPriceLog(ProductCode, OldPrice, NewPrice)
D. UPDATE Products SET Price = Price * 1.05
INSERT INTO ProductsPriceLog (ProductCode, CldPnce, NewPrice)

Answer: A

Reference: http://msdn.microsoft.com/en-us/library/ms177564.aspx

SELECT ProductCode, Price, Price * 1.05 FROM Products

Question No: 223 - (Topic 2)

You administer a Microsoft SQL Server 2016 database named Orders.

Orders contain a table named OrderShip that is defined as follows:

```
CREATE TABLE OrderShip
(OrderID bigint NOT NULL PRIMARY KEY,
CustomerID int NOT NULL,
ShipAddress nvarchar(500) NOT NULL,
CountryCode tinyint NULL)
```

A NULL value represents a domestic order. Ninety percent of the values in CountryCode are NULL.

Customers require a procedure that will return orders for all customers from a specified country. You create a new procedure:

```
CREATE PROCEDURE p_GetIntlOrders
(@countrycode tinyint)
AS
SELECT DISTINCT CustomerID, ShipAddress
FROM OrderShip
WHERE CountryCode = @countrycode
GO
```

Performance on this procedure is slow.

You need to alter the schema to optimize this query. Objects created must use a minimum amount of resources.

Which Transact-SQL statement should you use?

- **A.** CREATE NONCLUSTERED INDEX IX_CountryCode ON Ordership (CountryCode) WHERE CountryCode IS NOT NULL
- **B.** CREATE STATISTICS ST_CountryCode ON OrderShip (CountryCode) WHERE CountryCode IS NOT NULL
- C. CREATE CLUSTERED INDEX IX_CountryCode ON OrderShip (CountryCode)
- **D.** CREATE INDEX IX_CountryCode ON OrderShip (CustomerID) WHERE CountryCode IS NOT NULL

Answer: B

Question No: 224 - (Topic 2)

You have installed the SQL Server Integration Services (SSIS) feature on a server running Windows Server 2008 R2 SP1.

Which of the following features must you install if you want to ensure that you can run packages in 32-bit mode?

- A. Client Tools SDK
- B. Data Quality Client
- C. SQL Server Data Tools
- D. Client Tools Backwards Compatibility

Answer: C

Question No : 225 - (Topic 2)

You administer a Microsoft SQL Server database named Sales. The database is 3 terabytes in size.

The Sales database is configured as shown in the following table.

Filegroup	File
PRIMARY	Sales.mdf
XACTIONS	Sales_1.ndfSales_2.ndfSales_3.ndf
ARCHIVES	SalesArch_1.ndf SalesArch_2.ndf

You discover that all files except Sales_2.ndf are corrupt.

You need to recover the corrupted data in the minimum amount of time.

What should you do?

- **A.** Perform a file restore.
- **B.** Perform a transaction log restore.
- **C.** Perform a restore from a full backup.
- **D.** Perform a filegroup restore.

Answer: A

Reference: http://technet.microsoft.com/en-us/library/ms187048.aspx

Reference: http://msdn.microsoft.com/en-us/library/aa337540.aspx

Under the simple recovery model, the file must belong to a read-only filegroup.

Under the full or bulk-logged recovery model, before you can restore files, you must back up the active transaction log (known as the tail of the log). For more information, see Back Up a Transaction Log (SQL Server).

To restore a database that is encrypted, you must have access to the certificate or asymmetric key that was used to encrypt the database. Without the certificate or asymmetric key, the database cannot be restored. As a result, the certificate that is used to encrypt the database encryption key must be retained as long as the backup is needed. For more information, see SQL Server Certificates and Asymmetric Keys.

Question No : 226 - (Topic 2)

Which of the following is the default port for an SQL Server database to communicate over?

A. 1433

B. 21

C.

1344 **D**.

1521

Answer: A

Explanation: References:

https://msdn.microsoft.com/en-us/library/ms177440%28v=sql.110%29.aspx

Question No : 227 - (Topic 2)

Your database contains a table named SalesOrders. The table includes a DATETIME column named OrderTime that stores the date and time each order is placed. There is a

non-clustered index on the OrderTime column. The business team wants a report that displays the total number of orders placed on the current day.

You need to write a query that will return the correct results in the most efficient manner.

Which Transact-SQL query should you use?

A. SELECT COUNT(*) FROM SalesOrders

WHERE OrderTime = CONVERT(DATE, GETDATE())

B. SELECT COUNT(*) FROM SalesOrders WHERE OrderTime = GETDATE() **C.** SELECT COUNT(*) FROM SalesOrders

WHERE CONVERT(VARCHAR, OrderTime, 112) = CONVERT(VARCHAR, GETDATE(I, 112))

D. SELECT COUNT(*) FROM SalesOrders

WHERE OrderTime >= CONVERT(DATE, GETDATE())

AND OrderTime < DATEADD(DAY, CONVERT(DATE, GETDATE()))

Answer: D

Question No : 228 - (Topic 2)

You develop a Microsoft SQL Server 2016 database that contains a heap named OrdersHistonical.

You write the following Transact-SQL query:

INSERT INTO OrdersHistorical

SELECT * FROM CompletedOrders

You need to optimize transaction logging and locking for the statement.

Which table hint should you use?

- A. HOLDLOCK
- B. ROWLOCK
- C. XLOCK

D. UPDLOCK

E. TABLOCK

Answer: E Reference:

http://technet.microsoft.com/en-us/library/ms189857.aspx

http://msdn.microsoft.com/en-us/library/ms187373.aspx

Question No: 229 DRAG DROP - (Topic 2)

You administer a Microsoft SQL Server 2016 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:



Question No : 230 - (Topic 2)

You are a database administrator for a Microsoft SQL Server 2016 instance.

You need to ensure that data can be migrated from a production server to two reporting servers with minimal data to ensure that data on the reporting server is always accessible which solution should you use?

- A. Database snapshot
- **B.** Log Shipping
- C. Change Data Capture
- D. Availability Groups

Answer: D

Question No : 231 - (Topic 2)

You administer a Microsoft SQL Server 2016 database that includes a table named Application. Events. Application. Events contains millions of records about user activity in an application.

Records in Application. Events that are more than 90 days old are purged nightly. When records are purged, table locks are causing contention with inserts.

You need to be able to modify Application. Events without requiring any changes to the applications that utilize Application. Events.

Which type of solution should you use?

- A. Partitioned tables
- B. Online index rebuild
- C. Change data capture
- **D.** Change tracking

Answer: A

Question No : 232 DRAG DROP - (Topic 2)

You are migrating an OLTP database from Windows Azure SQL Database to on-premise. You are planning the installation of a Microsoft SQL Server 2016 server failover cluster. The server has the following partitions:

Disk Subsystem	Storage Location	RAID Level	Capacity
C:	Local	1	100GB
D:	Local SSD	1	128GB
Partition(1)	SAN	10	500GB
Partition(2)	SAN	5	500GB

You install the operating system on the C: drive.

The database solution will use row versioning, triggers, and cursors. The tempdb database cannot be placed on the same disk subsystem as the OLTP database.

The OLTP database needs to be on the fastest disk subsystem possible. The database is currently 200GB in size. It will not substantially increase in size in the next 3 years.

You need to plan the usage of the disk subsystems.

To which hard disk should each database belong? (To answer, drag the appropriate database or databases to their corresponding hard disk or disks in the answer area. Answer choices may be used once, more than once, or not at all. Answer targets may be used once or not at all. Additionally, you may need to drag the split bar between panes or scroll to view content.)



Answer:

	The state of the s	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
Database	Hard Disk		
C: drive	SQL Server binaries	C: drive	
D: drive	OLTP database	Partition(1)	
Partition(1)	and the second s		
Partition(2)	tempdb database	D: drive	
-	database backups	Partition(2)	
		-	

Question No : 233 - (Topic 2)

You administer a Windows 2008 server hosting an instance of Microsoft SQL Server 2016 Standard Edition. The server hosts a database named Orders.

Users report that a query that filters on OrderDate is taking an exceptionally long time. You discover that an index named IX_OrderDate on the CustomerOrder table is heavily fragmented.

You need to improve the performance of the IX_OrderDate index. The index should remain online during the operation.

Which Transact-SQL command should you use?

- A. ALTER INDEX IX_OrderDateON CustomerOrder DISABLE
- B. ALTER INDEX IX_OrderDateON CustomerOrder ENABLE
- C. ALTER INDEX IX OrderDateON CustomerOrder REORGANIZE
- D. ALTER INDEX IX OrderDateON CustomerOrder REBUILD

Answer: C

Question No: 234 - (Topic 2)

Which of the following is required in order for a differential backup to be useful for recovery purposes?

- **A.** A full backup taken previous to the differential backup.
- **B.** Hard drive space that is 2 times the size of the database you want to restore.
- **C.** Less than 1000 database transactions an hour.
- **D.** A full backup taken after the differential backup.

Answer: A

Explanation: References:

https://msdn.microsoft.com/en-us/library/ms175526%28v=sql.110%29.aspx

Question No : 235 - (Topic 2)

Which of the following SQL Server 2016 database is NOT created by default in a new installation?

- A. model
- B. msdb
- C. tempdb
- D. sql
- E. master

Answer: D

Question No : 236 - (Topic 2)

You install a Microsoft SQL Server 2016 instance.

The instance will store data extracted from two databases running on Windows Azure SQL Database.

You hire a data steward to perform interactive data cleansing and ad hoc querying and updating of the data.

You need to ensure that the data steward is given the correct client tools to perform these tasks.

Which set of tools should you install?

- A. SQL Server Management Studio and Distributed Reply Client
- B. Data Quality Client and SQL Server Data Tools
- C. Data Quality Client and Distributed Replay Client
- D. SQL Server Management Studio and Master Data Services

Answer: B

Question No: 237 - (Topic 2)

You administer a Microsoft SQL Server environment. You purchase a new server and plan to migrate your database from SQL Server 2008 to SQL Server 2016.

You want to evaluate to prepare for possible conflicts and issues that may arise during or after the migration.

Which SQL Server tool should you use?

- A. Distributed Replay
- **B.** Migration Assistant
- C. Data Tools
- **D.** Upgrade Advisor

Answer: D

Question No : 238 - (Topic 2)

You develop a Microsoft SQL Server 2016 database. The database is used by two web applications that access a table named Products. You want to create an object that will prevent the applications from accessing the table directly while still providing access to the required data.

You need to ensure that the following requirements are met:

- ⇒ Future modifications to the table definition will not affect the applications' ability to access data.
- The new object can accommodate data retrieval and data modification.

You need to achieve this goal by using the minimum amount of changes to the applications.

What should you create for each application?

- A. Synonyms
- B. Common table expressions
- C. Views
- **D.** Temporary tables

Answer: C

Reference: http://msdn.microsoft.com/en-us/library/ms190174.aspx

Question No: 239 - (Topic 2)

Which of the following file systems is supported for an SQL Server 2016 installation?

- A. EXT4
- **B.** NTFS
- **C.** FAT16
- **D.** EXT3

Answer: B

Explanation: References:

https://msdn.microsoft.com/en-us/library/ms143506%28v=sql.110%29.aspx#storagetypes

Question No: 240 - (Topic 2)

You administer a Microsoft SQL Server 2016 instance that has multiple databases. You have a two-node SQL Server failover cluster. The cluster uses a storage area network (SAN).

You discover I/O issues. The SAN is at capacity and additional disks cannot be added.

You need to reduce the I/O workload on the SAN at a minimal cost.

What should you do?

- A. Move user databases to a local disk.
- B. Expand the tempdb data and log files
- **C.** Modify application code to use table variables
- **D.** Move the tempdb files to a local disk

Answer: D

Question No: 241 - (Topic 2)

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

Reference: http://msdn.microsoft.com/en-us/library/ms189635.aspx

Question No : 242 DRAG DROP - (Topic 2)

You administer several Microsoft SQL Server 2016 servers.

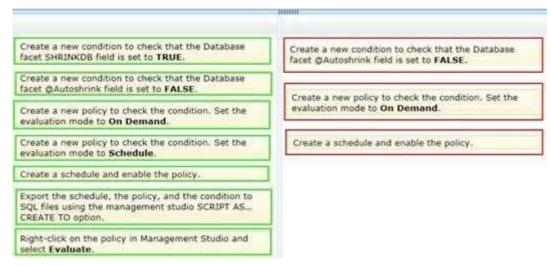
You want to run scheduled checks to confirm that the databases on the servers are not configured to AutoShrink.

You need to create a policy to check the condition.

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:



Explanation:

Box 1:

Create a new condition to check that the Database facet @Autoshrink field is set to FALSE.

Box 2:

Create a new policy to check the condition. Set the evaluation mode to **On Demand**.

Box 3:

Create a schedule and enable the policy.

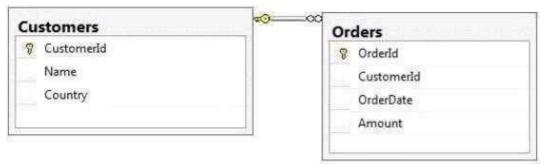
Note:

- * @autoshrink is used to enable/disable the autoshrink feature.
- * The Evaluation Mode defines the combination of 1) when the policy will be evaluated and2) what the system will do in case of policy violation. The following evaluation modes are supported:

Evaluation Mode	When to Check	Action upon Violation
On Demand	On demand only	Users can choose to configure the system to comply to the policy
On Schedule	Periodically according to the specified schedule	log
On Change – Log only	When there is a relevant (DDL) change to the DBMS	log
On Change – Prevent	When there is a relevant (DDL) change to the DBMS	Roll back the transaction

Question No: 243 - (Topic 2)

You administer a Microsoft SQL Server 2016 database named ContosoDb. Tables are defined as shown in the exhibit. (Click the Exhibit button.)



You need to display rows from the Orders table for the Customers row having the CustomerId value set to 1 in the following XML format.

```
<Customers Name="Customer A" Country="Australia">
    <OrderId>1</OrderId>
    <OrderDate>2000-01-01T00:00:00</OrderDate>
        <Amount>3400.00</Amount>

</Customers>
    <Customers Name="Customer A" Country="Australia">
        <OrderId>2</OrderId>
        <OrderId>2</OrderId>
        <Amount>4300.00</Amount>
        </Customers></Customers></Customers></Customers>
```

Which Transact-SQL query should you use?

A. SELECT Orderld, OrderDate, Amount, Name, Country FROM Orders INNER JOIN Customers

ON Orders.CustomerId = Customers-CustomerId WHERE Customers.CustomerId = 1 FOR XML RAW

B. SELECT Orderld, OrderDate, Amount, Name, Country FROM Orders INNER JOIN Customers

ON Orders.CustomerId = Customers.CustomerId WHERE Customers.CustomerId = 1 FOR XML RAW, ELEMENTS

C. SELECT Orderld, OrderDate, Amount, Name, Country FROM Orders INNER JOIN Customers

ON Orders.CustomerId = Customers.CustomerId WHERE Customers.CustomerId = 1 FOR XML AUTO

D. SELECT Orderld, OrderDate, Amount, Name, Country FROM Orders INNER JOIN Customers

ON Orders.CustomerId – Customers.CustomerId WHERE Customers.CustomerId= 1 FOR XML AUTO, ELEMENTS

E. SELECT Name, Country, Orderld, OrderDate, Amount FROM Orders INNER JOIN Customers

ON Orders.CustomerId= Customers.CustomerId WHERE Customers.CustomerId= FOR XML AUTO

F. SELECT Name, Country, Crderld, OrderDate, Amount FROM Orders INNER JOIN Customers

ON Orders.CustomerId= Customers.CustomerId WHERE Customers.CustomerId= FOR XML AUTO, ELEMENTS

G. SELECT Name AS '@Name', Country AS '@Country', Orderld, OrderDate, Amount FROM

Orders INNER JOIN Customers ON Orders.CustomerId= Customers.CustomerId WHERE Customers.

CustomerId= 1

FOR XML PATH ('Customers')

H. SELECT Name AS 'Customers/Name', Country AS 'Customers/Country', Orderld, OrderDate, Amount

FROM Orders INNER JOIN Customers ON Orders.CustomerId= Customers.CustomerId WHERE Customers.CustomerId= 1

FOR XML PATH ('Customers')

Answer: G

Question No: 244 DRAG DROP - (Topic 2)

You administer a Microsoft SQL Server 2016 database.

The database is backed up according to the following schedule:

- ⇒ Daily full backup at 23:00 hours.
- → Differential backups on the hour, except at 23:00 hours.
- → Log backups every 10 minutes from the hour, except on the hour.

The database uses the Full recovery model.

A developer accidentally drops a number of tables and stored procedures from the database between 22:40 hours and 23:10 hours. You perform a database restore at 23:30 hours to recover the dropped table.

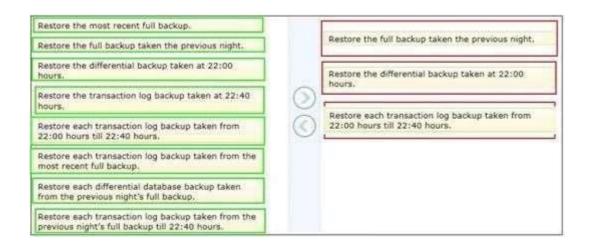
You need to restore the database by using the minimum amount of administrative effort.

You also need to ensure minimal data loss.

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.)

Restore the most recent full backup.	
Restore the full backup taken the previous night.	
Restore the differential backup taken at 22:00 hours.	
Restore the transaction log backup taken at 22:40 hours.	0
Restore each transaction log backup taken from 22:00 hours till 22:40 hours,	0
Restore each transaction log backup taken from the most recent full backup.	
Restore each differential database backup taken from the previous night's full backup.	
Restore each transaction log backup taken from the previous night's full backup till 22:40 hours.	

Answer:



Question No: 245 - (Topic 2)

Which of the following is a high availability feature with SQL Server 2016?

- A. Clustering B. AlwaysOn
- C. Log Shipping
- D. Active-Active

Answer: B

Explanation: References: https://msdn.microsoft.com/en-us/library/ms190202%28v=sql.110%29.aspx **Question No : 246 - (Topic 2)**

Which of the following permissions must a user have in order to query all of the built-in Dynamic Management views?

- A. VIEW ALL
- **B. SELECT ALL VEWS**
- C. VIEW SERVER INFO
- D. VIEW SERVER STATE

Answer: D

Explanation: References:

https://msdn.microsoft.com/en-us/library/ms188754%28v=sql.110%29.aspx

Question No: 247 - (Topic 2)

Which of the following is NOT a pre-defined server role in SQL Server 2016?

- A. securityadmin
- B. serveradmin
- C. sysdba
- D. dbcreator

Answer: C

Explanation: References:

https://msdn.microsoft.com/en-us/library/ms188659%28v=sql.110%29.aspx

Question No: 248 - (Topic 2)

On which of the following operating systems can you deploy the 64-bit version of SQL Server 2012 Enterprise edition? (Choose all that apply.)

- A. Windows 7 Ultimate (x64) edition
- B. Windows Server 2008 R2 SP1 (x64) Standard edition
- C. Windows Server 2008 SP2 (x64) Enterprise edition
- **D.** Windows Server 2003 R2 (x64) Enterprise edition

Answer: B,C