



70-462^{Q&As}

Administering Microsoft SQL Server 2012/2014 Databases

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QUESTION 1

DRAG DROP

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.)

Select and Place:

Add 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.	

Correct Answer:

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

**QUESTION 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.

- 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 (1, 112))
```
- D.

```
SELECT COUNT(*) FROM SalesOrders
WHERE OrderTime >= CONVERT (DATE, GETDATE ())
AND OrderTime < DATEADD (DAY, CONVERT (DATE, GETDATE ()))
```

Which Transact-SQL query should you use?

- A. OptionA
- B. OptionB
- C. OptionC
- D. OptionD

Correct Answer: D

QUESTION 3**HOTSPOT**

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

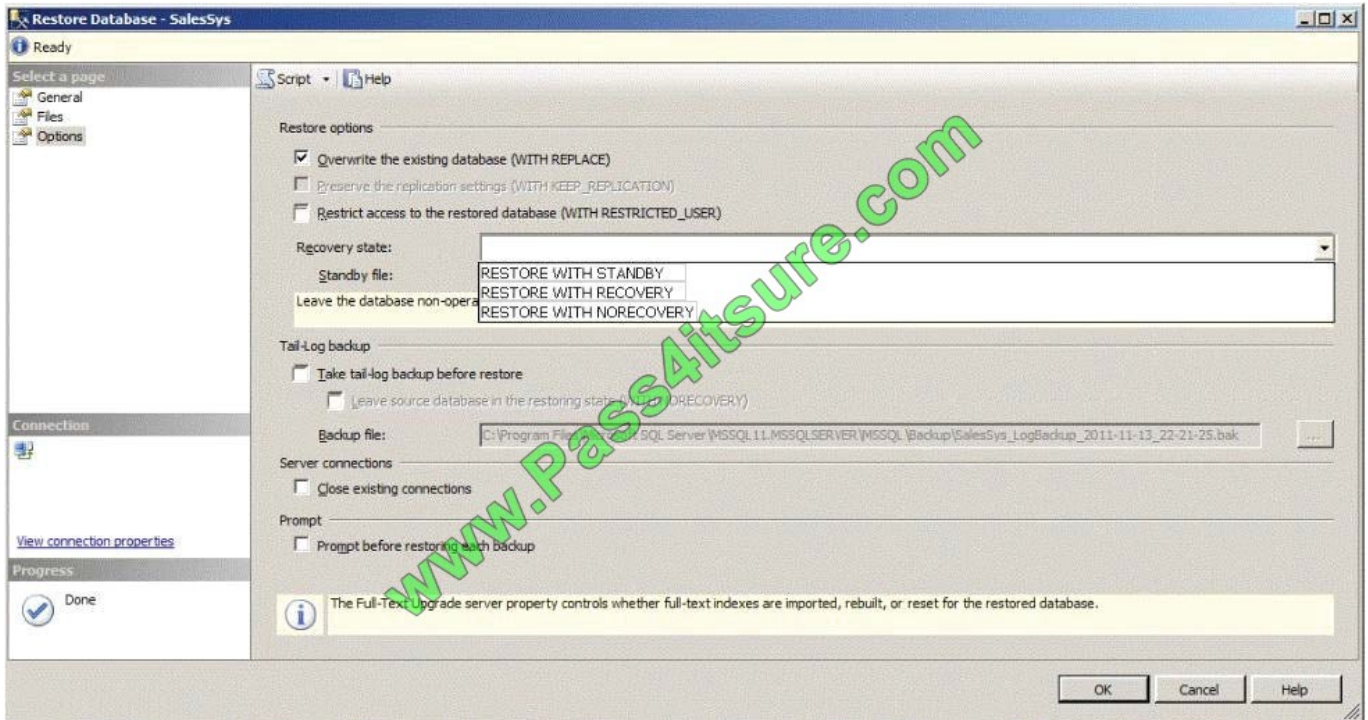


The database fails at 20:45 hours.

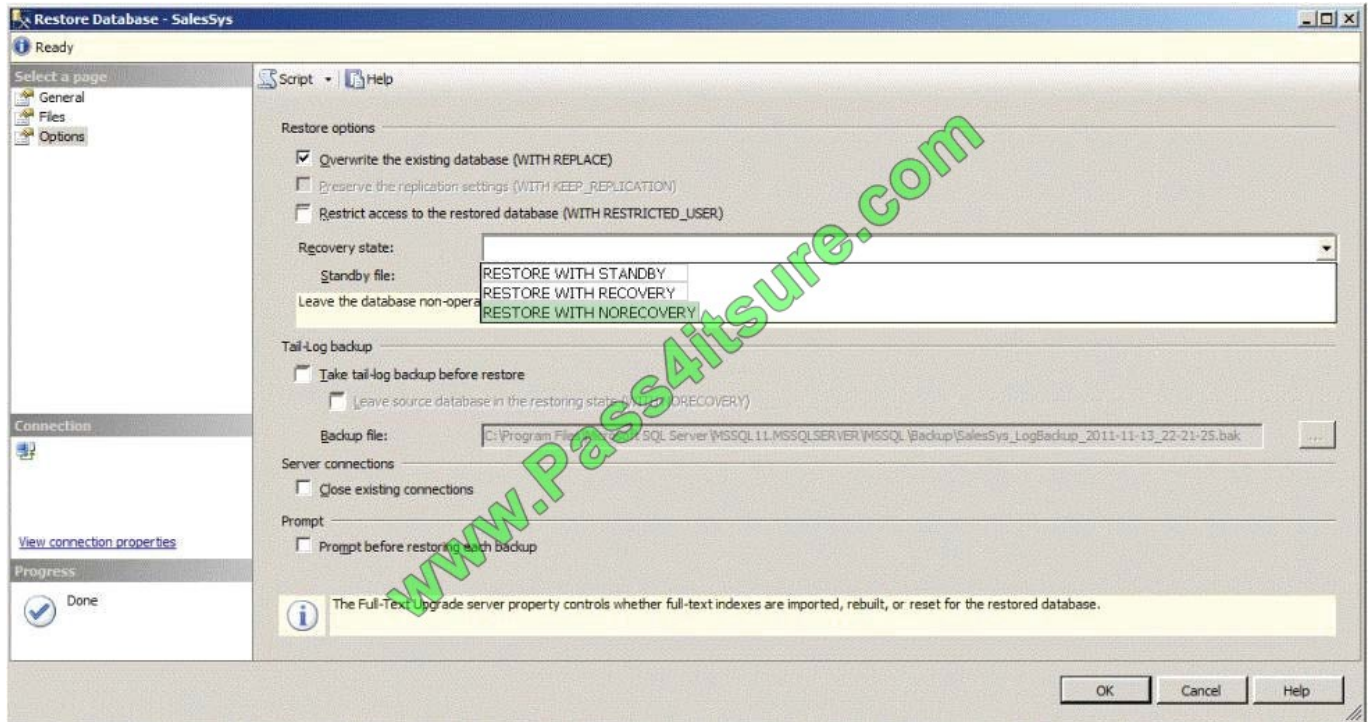
You need to use SQL Server Management Studio (SSMS) to begin restoring the database to a new server instance with a minimum amount of data loss.

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.)

Hot Area:



Correct Answer:



QUESTION 4

You administer a Microsoft SQL Server 2012 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.)

Correct Answer: Check the answer in explanation.

SQL Server Import and Export Wizard
Choose a Destination
Specify where to copy data to.

Destination: Flat File Destination

Select a file and specify the file properties and the file format.

File name: C:\Employee.csv

Locale: English (United States) Unicode

Code page: 1252 (ANSI - Latin I)

Format:

Text qualifier: <none>

Column names in the first data row

QUESTION 5

DRAG DROP

You administer a Microsoft SQL Server database.

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

In order to configure security for PRODUCT, 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.

Select and Place:



Commands

```
DENY INSERT,UPDATE,DELETE ON
product.production_cost TO <user>
```

```
GRANT EXECUTE ON
product.getMaterials TO <user>
```

```
GRANT SELECT ON SCHEMA::PRODUCT
TO <user>
```

```
GRANT SELECT ON product.product
<user> WITH GRANT OPTION;
```

Security Requirement

Allow users to run a stored procedure.

Do not allow users the ability to change any data in a given table.

Grant users the ability to retrieve data from all tables and views in the schema.

Command

Command

Command

Correct Answer:

Commands

```
GRANT SELECT ON product.product
<user> WITH GRANT OPTION;
```

Security Requirement

Allow users to run a stored procedure.

Do not allow users the ability to change any data in a given table.

Grant users the ability to retrieve data from all tables and views in the schema.

```
GRANT EXECUTE ON
product.getMaterials TO <user>
```

```
DENY INSERT,UPDATE,DELETE ON
product.production_cost TO <user>
```

```
GRANT SELECT ON SCHEMA::PRODUCT
TO <user>
```

References: <https://docs.microsoft.com/en-us/sql/t-sql/statements/grant-object-permissions-transact-sql?view=sql-server-2017>

QUESTION 6

Which of the following SQL Server 2012 tools assists DBAs in running and analyzing trace results?

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

Correct Answer: B

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

QUESTION 7



DRAG DROP

You administer a Microsoft 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:

Use minimal administrative effort.

Avoid losing existing permissions on existing objects.

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

Select and Place:



Actions

Replace the INSERT statement with a SELECT INTO statement. Run the SELECT INTO statement.

Run a CREATE INDEX statement for each index.

Run a DROP INDEX statement for each index.

Run the INSERT statement.

Run the following statement:
DROP TABLE OrdersHistory.

Run the following statement:
ALTER INDEX ALL on OrdersHistory DISABLE.

Run the following statement:
ALTER INDEX ALL on OrdersHistory REBUILD.

Answer Area

Empty answer area for the question.

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Correct Answer:

**Actions**

Replace the INSERT statement with a SELECT INTO statement. Run the SELECT INTO statement.

Run a CREATE INDEX statement for each index.

Run a DROP INDEX statement for each index.

Run the following statement:
DROP TABLE OrdersHistory.

Answer Area

Run the following statement:
ALTER INDEX ALL on OrdersHistory DISABLE.

Run the INSERT statement.

Run the following statement:
ALTER INDEX ALL on OrdersHistory REBUILD.

Step 1: Run the following statement:

```
ALTER INDEX ALL on OrdersHistory DISABLE.
```

Step 2: Run the INSERT statement.

Step 3: Run the following statement:

```
ALTER INDEX ALL on OrdersHistory REBUILD
```

The ALTER INDEX ALL REBUILD statement rebuilds and enables all disabled indexes on the table. References: <https://docs.microsoft.com/en-us/sql/relational-databases/indexes/disable-indexes-and-constraints>

QUESTION 8

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 2012.

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

Correct Answer: D

QUESTION 9

DRAG DROP

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?

Select and Place:

Strategies	Task
FULL recovery model	Recovery Model
SIMPLE recovery model	Sunday Backup
BULK_LOGGED recovery model	Nightly Backup
Full database backup	

Correct Answer:

Strategies	Task
	Recovery Model
	Sunday Backup
BULK_LOGGED recovery model	Nightly Backup

**QUESTION 10**

You administer a Microsoft Azure SQL Database instance 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. Add EXECUTE AS OWNER to the stored procedure. Add all users to the db_datareader role.
- 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. Add all users to the db_datawriter role. Add all users to the dbd_datareader role.

Correct Answer: A

Executing as OWNER executes the procedure in the context of the procedure owner. If the procedure is created in a schema owned by dbo or the database owner, the procedure will execute with unrestricted permissions.

Members of the db_datareader fixed database role can read all data from all user tables.

References:

<https://docs.microsoft.com/en-us/dotnet/framework/data/adonet/sql/customizing-permissions-with-impersonation-in-sql-server>

<https://docs.microsoft.com/en-us/sql/relational-databases/security/authentication-access/database-level-roles>

QUESTION 11

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.

Correct Answer: A

References: <https://msdn.microsoft.com/en-us/library/ms175526%28v=sql.110%29.aspx>



QUESTION 12

DRAG DROP

You administer a Microsoft SQL Server 2012 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.

Select and Place:

Actions	Answer Area
Restore the database	
Back up the database	
Restore the Private Key	
Back up the Private Key	
Enable transparent database encryption	
Enable transparent database encryption	
Create a new Private Key from the key backup	
Use the Database Transfer wizard to move the database to new server	

Correct Answer:

Actions	Answer Area
	Back up the Private Key
	Back up the database
	Restore the Private Key
	Restore the database
Enable transparent database encryption	
Enable transparent database encryption	
Create a new Private Key from the key backup	
Use the Database Transfer wizard to move the database to new server	

QUESTION 13



You administer a Microsoft SQL Server 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 command-line 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.

Correct Answer: C

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.

References:

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

QUESTION 14

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 FILEGROUP` command along with the name and maxsize parameter.
- C. 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.
- D. Use the `ALTER DATABASE...AUTO_SHRINK` command along with the On parameter.

Correct Answer: C

QUESTION 15

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

- A. STATS



B. SHOW_STATISTICS

C. OBJECT_STATS

D. OPTIMIZER

Correct Answer: B

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

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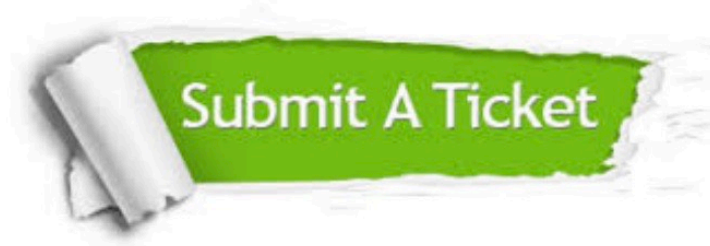
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