



70-764^{Q&As}

Administering a SQL Database Infrastructure

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**QUESTION 1**

You work as a Database Administrator (DBA) for a company named ABC.com.

The company uses a Microsoft SQL Server 2012 infrastructure.

You have a database named CorpDB. CorpDB contains 2TB of data.

You plan to import a large amount of data into tables in CorpDB.

You want to minimize the size of the transaction log while the data is imported.

What should you do?

- A. You should configure the recovery model of the database to Full.
- B. You should configure the recovery model of the database to Bulk-Logged.
- C. You should start a new transaction log file.
- D. You should configure a new filegroup for the existing log file.

Correct Answer: B

QUESTION 2

Overview

General Overview

ADatum Corporation has offices in Miami and Montreal.

The network contains a single Active Directory forest named adatum.com. The offices connect to each other by using a WAN link that has 5-ms latency. A. Datum standardizes its database platform by using SQL Server 2014 Enterprise edition.

Databases

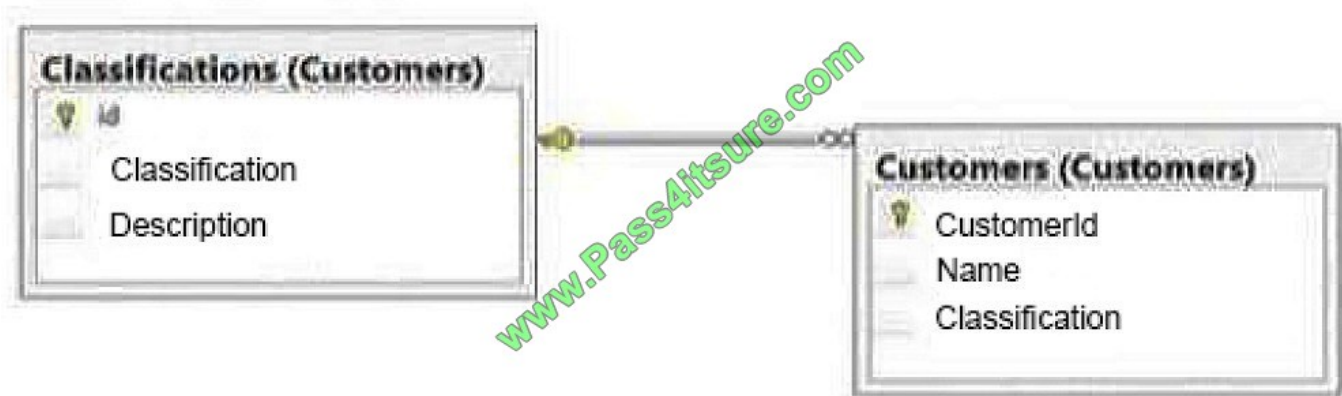
Each office contains databases named Sales, Inventory, Customers, Products, Personnel, and Dev.

Servers and databases are managed by a team of database administrators. Currently, all of the database administrators have the same level of permissions on all of the servers and all of the databases.

The Customers database contains two tables named Customers and Classifications.

The following graphic shows the relevant portions of the tables:

Classifications (Customers)



The following table shows the current data in the Classifications table:

ID	Classification	Description
1	Platinum	Yearly sales over 1,000,000
2	Gold	Yearly sales over 500,000
3	Silver	Yearly sales over 100,000

The Inventory database is updated frequently.

The database is often used for reporting.

A full backup of the database currently takes three hours to complete.

Stored Procedures

A stored procedure named USP_1 generates millions of rows of data for multiple reports. USP_1 combines data from five different tables from the Sales and Customers databases in a table named Table1. After Table1 is created, the

reporting process reads data from Table1 sequentially several times. After the process is complete, Table1 is deleted. A stored procedure named USP_2 is used to generate a product list. The product list contains the names of products

grouped by category.

USP_2 takes several minutes to run due to locks on the tables the procedure accesses. The locks are caused by USP_1 and USP_3.

A stored procedure named USP_3 is used to update prices. USP_3 is composed of several UPDATE statements called in sequence from within a transaction. Currently, if one of the UPDATE statements fails, the stored procedure fails. A

stored procedure named USP_4 calls stored procedures in the Sales, Customers, and Inventory databases.

The nested stored procedures read tables from the Sales, Customers, and Inventory databases. USP_4 uses an EXECUTE AS clause.

All nested stored procedures handle errors by using structured exception handling. A stored procedure named USP_5 calls several stored procedures in the same database. Security checks are performed each time USP_5 calls a stored

procedure.



You suspect that the security checks are slowing down the performance of USP_5. All stored procedures accessed by user applications call nested stored procedures.

The nested stored procedures are never called directly.

Design Requirements

Data Recovery

You must be able to recover data from the Inventory database if a storage failure occurs. You have a Recovery Time Objective (RTO) of 5 minutes.

You must be able to recover data from the Dev database if data is lost accidentally. You have a Recovery Point Objective (RPO) of one day.

Classification Changes

You plan to change the way customers are classified. The new classifications will have four levels based on the number of orders. Classifications may be removed or added in the future. Management requests that historical data be

maintained for the previous classifications. Security A group of junior database administrators must be able to manage security for the Sales database. The junior database administrators will not have any other administrative rights. A. Datum

wants to track which users run each stored procedure.

Storage

A- Datum has limited storage. Whenever possible, all storage space should be minimized for all databases and all backups.

Error Handling

There is currently no error handling code in any stored procedure.

You plan to log errors in called stored procedures and nested stored procedures. Nested stored procedures are never called directly.

You need to recommend a disaster recovery strategy for the Inventory database. What should you include in the recommendation?

- A. Log shipping
- B. SQL Server Failover Clustering
- C. AlwaysOn availability groups
- D. Peer-to-peer replication

Correct Answer: A

Scenario:

- You must be able to recover data from the Inventory database if a storage failure occurs. You have a Recovery Point Objective (RPO) of one hour.

-A. Datum Corporation has offices in Miami and Montreal.



- SQL Server Log shipping allows you to automatically send transaction log backups from a primary database on a primary server instance to one or more secondary databases on separate secondary server instances. The transaction log backups are applied to each of the secondary databases individually.

QUESTION 3

You have a Microsoft SQL Server instance that has a database named DB1. The database is used for reporting purposes. You plan to capture all queries for a specific table and save the data as a text file.

You need to ensure that queries are captured and that a failure to capture a query will shut down the SQL Server instance.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Enable SQL Server Audit.
- B. Use Extended Events.
- C. Use a logon trigger.
- D. Create a SQL Server Profiler trace and disable c2 audit tracing.
- E. Enable SQL Server Query Store.

Correct Answer: AD

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://docs.microsoft.com/en-us/sql/relational-databases/security/auditing/sql-server-audit-database-engine>

QUESTION 4

You need to address the requirements for disc usage monitoring for the SQL Servers.

What should you do?

- A. You should configure disc quotas.
- B. You should configure a Dynamic Management View.
- C. You should configure alerts sent by the SQL Server Agent.



D. You should configure a SQL Server Maintenance Plan.

Correct Answer: B

QUESTION 5

You manage a Microsoft-SQL Server database named sales Orders.

You need to verify the integrity of the database and attempt to repair any errors that are found. Repair must not cause any data to be lost in the database.

How should you complete the DBCC command? To answer, select the appropriate options in the answer area.

Hot Area:

Answer Area

DBCC

CHECKDB
PHYSICAL_ONLY
REPAIR_FAST
REPAIR_REBUILD

 ('salesorders',

CHECKDB
PHYSICAL_ONLY
REPAIR_FAST
REPAIR_REBUILD

)

Correct Answer:

Answer Area

DBCC

CHECKDB
PHYSICAL_ONLY
REPAIR_FAST
REPAIR_REBUILD

 ('salesorders',

CHECKDB
PHYSICAL_ONLY
REPAIR_FAST
REPAIR_REBUILD

)

Box 1: CHECKDB

DBCC CHECKDB checks the logical and physical integrity of all the objects in the specified database.

Partial syntax:

DBCC CHECKDB

[(database_name | database_id | 0



[, NOINDEX

| , { REPAIR_ALLOW_DATA_LOSS | REPAIR_FAST | REPAIR_REBUILD }]

....

Box 2: REPAIR_REBUILD

DBCC CHECKDB ...REPAIR_ALLOW_DATA_LOSS | REPAIR_FAST |REPAIR_REBUILD

specifies that DBCC CHECKDB repair the found errors.

REPAIR_REBUILD performs repairs that have no possibility of data loss. This can include quick repairs, such as repairing missing rows in non-clustered indexes, and more timeconsuming repairs, such as rebuilding an index.

References: <https://docs.microsoft.com/en-us/sql/t-sql/database-console-commands/dbcccheckdb-transact-sql>

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