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Case Study 1 - Litware, Inc Case (Question 40 - Question 49)OverviewYou are a database administrator for a company named Litware, Inc. Litware is a book publishing house. Litware has a main office and a branch office. You are designing the database infrastructure to support a new web-based application that is being developed. The web application will be accessed at www.litwareinc.com. Both internal employees and external partners will use the application. You have an existing desktop application that uses a SQL Server 2008 database named App1_DB. App1_DB will remain in production.RequirementsPlanned ChangesYou plan to deploy a SQL Server 2014 instance that will contain two databases named Database1 and Database2. All database files will be stored in a highly available SAN. Database1 will contain two tables named Orders and OrderDetails. Database1 will also contain a stored procedure named usp_UpdateOrderDetails. The stored procedure is used to update order information. The stored procedure queries the Orders table twice each time the procedure executes. The rows returned from the first query must be returned on the second query unchanged along with any rows added to the table between the two read operations. Database1 will contain several queries that access data in the Database2 tables. Database2 will contain a table named Inventory. Inventory will contain over 100 GB of data. The Inventory table will have two indexes: a clustered index on the primary key and a nonclustered index. The column that is used as the primary key will use the identity property. Database2 wilt contains a stored procedure named usp_UpdateInventory. usp_UpdateInventory will manipulate a table that contains a self-join that has an unlimited number of hierarchies. All data in Database2 is recreated each day ad does not change until the next data creation process. Data from Database2 will be accessed periodically by an external application named Application1. The data from Database2 will be sent to a database named Appl_Dbl as soon as changes occur to the data in Database2. Litware plans to use offsite storage for all SQL Server 2014 backups. Business RequirementsYou have the following requirements:- Costs for new licenses must be minimized.- Private information that is accessed by Application must be stored in a secure format. - Development effort must be minimized whenever possible. - The storage requirements for databases must be minimized.- System administrators must be able to run real-time reports on disk usage.- The databases must be available if the SQL Server service fails. - Database administrators must receive a detailed report that contains allocation errors and data corruption.- Application developers must be denied direct access to the database tables. Applications must be denied direct access to the tables. You must encrypt the backup files to meet regulatory compliance requirements. The encryption strategy must minimize changes to the databases and to the applications. QUESTION 40You need to recommend an isolation level for usp_UpdateOrderDetails. Which isolation level should recommend? A.   Read committedB.   Repeatable readC.   Read uncommittedD.   Serializable Answer: B QUESTION 41You need to recommend a solution for the deployment of SQL Server 2014. The solution must meet the business requirements. What should you include in the recommendation? A.   Create a new instance of SQL Server 2014 on the server that hosts the SQL Server 2008 instance.B.   Upgrade the existing SQL Server 2008 instance to SQL Server 2014.C.   Deploy two servers that have SQL Server 2014 installed and implement Failover Clustering.D.   Deploy two servers that have SQL Server 2014 installed and implement database mirroring. Answer: C QUESTION 42You need to recommend a solution to improve the performance of usp.UpdateInventory. The solution must minimize the amount of development effort. What should you include in the recommendation? A.   A table variableB.   A common table expressionC.   A subqueryD.   A cursor Answer: A QUESTION 43You need to recommend a disk monitoring solution that meets the business requirements. What should you include in the recommendation? A.   a SQL Server Agent alertB.   a dynamic management viewC.   a maintenance planD.   an audit Answer: A QUESTION 44You need to recommend a solution for

Application1 that meets the security requirements. What should you include in the recommendation? A.   Encrypted columnsB.   Certificate AuthenticationC.   Secure Socket Layer (SSL)D.   Signed stored procedures Answer: A QUESTION 45You need to recommend a feature to support your backup solution. What should you include in the recommendation? A.   Transparent Data Encryption (TDE)B.   Column-level encryptionC.   An NTFS file permissionD.   A Secure Sockets Layer (SSL) Answer: A QUESTION 46You need to recommend a solution to allow application users to perform UPDATE operations on the database tables. The solution must meet the business requirements. What should you recommend? A.   Create stored procedures that use EXECUTE AS clauses.B.   Create a user-defined database role and add users to the role.C.   Create functions that use EXECUTE AS clauses. D.   Create a Policy-Based Management Policy. Answer: A QUESTION 47You need to recommend a database reporting solution that meets the business requirements. What should you include in the recommendation? A.   Data collectionB.   Performance MonitorC.   A maintenance planD.   A dynamic management view Answer: A QUESTION 48You need to recommend a solution to synchronize Database2 to App1_Db1. What should you recommend? A.   Change data captureB.   Snapshot replicationC.   Master Data ServicesD.   Transactional replication Answer: D QUESTION 49During performance testing, you discover that database INSERT operations against the Inventory table are slow. You need to recommend a solution to reduce the amount of time it takes to complete the INSERT operations. What should you recommend? A.   Partition the nonclustered index.B.   Partition the Inventory table.snapshot replicationC.   Create a column store index.Master Data ServicesD.   Drop the clustered index.change data capture Answer: A

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```
CREATE PROC Sales.Proc1
AS
BEGIN TRAN
UPDATE Sales.Table1 ...
UPDATE Sales.Table2 ...
COMMIT TRAN
GO
www.passleader.com
CREATE PROC Sales.Proc2
AS
BEGIN TRAN
UPDATE Sales.Table2 ...
UPDATE Sales.Table1 ...
COMMIT TRAN
GO
```

Customer ProblemsInstallation IssuesThe current version of the ERP application requires that several SQL Server logins be set up to function correctly. Most customers set up the ERP application in multiple locations and must create logins multiple times.Index

Fragmentation IssuesCustomers discover that clustered indexes often are fragmented. To resolve this issue, the customers defragment the indexes more frequently. All of the tables affected by fragmentation have the following columns that are used as the clustered index key

Column	Data type
id	uniqueidentifier
lastModified	datetime
modifiedBy	varchar(200)

Backup IssuesCustomers who have large amounts of historical purchase order data report that backup time is unacceptable.Search IssuesUsers report that when they search product names, the search results exclude product names that contain accents, unless the search string includes the accent.Missing Data IssuesCustomers report that when they make a price change in the Products table, they cannot retrieve the price that the item was sold for in previous orders.Query Performance IssuesCustomers report that query performance degrades very quickly. Additionally, the customers report that users cannot run queries when SQL Server runs maintenance tasks.Import IssuesDuring the monthly import process, database administrators receive many supports call from users who report that they cannot access the supplier data. The database administrators want to reduce the amount of time required to import the data.Design RequirementsFile Storage RequirementsThe ERP database stores scanned documents that are larger than 2 MB. These files must only be accessed through the ERP application. File access must have the best possible read and write performance.Data Recovery RequirementsIf the import process fails, the database must be returned to its prior state immediately. Security RequirementsYou must provide users with the ability to execute functions within the ERP application, without having direct access to the underlying tables.Concurrency RequirementsYou must reduce the likelihood of deadlocks occurring when Sales.Prod and Sales.Proc2 execute. QUESTION 50You need to recommend a solution that addresses the index fragmentation and index width issue. What should you include in the recommendation? (Each correct answer presents part of the solution. Choose all that apply.) A.   Change the data type of the lastModified column to smalldatetime.B.   Remove the lastModified column from the clustered index.C.   Change the data type of the modifiedBy column to tinyint.D.   Change the data type of the id column to bigint. E.   Remove the modifiedBy column from the clustered index.F.   Remove the id column from the clustered index. Answer: BE QUESTION 51You need to recommend changes to the ERP application to resolve the search issue. The solution must minimize the impact on other queries generated from the ERP application. What should you recommend changing? A.   The collation of the Products tableB.   The index on the ProductName columnC.   The collation of the ProductName columnD.   The data type of the ProductName column Answer: C QUESTION 52You need to recommend a solution that addresses the concurrency requirement. What should you recommend? A.   Call the stored procedures in a Distributed Transaction Coordinator (DTC) transaction.B. Modify the stored procedures to update tables in the same order for all of the stored procedures.C.   Make calls to Sales.Proc1 and Sales.Proc2 synchronously.D.   Break each stored procedure into two separate procedures, one that changes Sales.Table1 and one that changes Sales.Table2. Answer: B QUESTION 53You need to recommend a solution that addresses the backup issue. The solution must minimize the amount of development effort. What should you include in the recommendation? A.   Indexed viewsB. FilegroupsC.   Table partitioningD.   Indexes Answer: B QUESTION 54You need to recommend a solution that meets the data recovery requirement. What should you include in the recommendation? A.   A differential backupB.   A transaction log backupC. Snapshot isolationD.   A database snapshot Answer: D QUESTION 55You need to recommend a solution that resolves the missing data issue. The solution must minimize the amount of development effort. What should you recommend? A.   Denormalize the Products table.B.   Denormalize the OrderDetails table.C.   Normalize the OrderDetails table.D.   Normalize the Products table. Answer: D QUESTION 56You need to recommend a solution that reduces the time it takes to import the supplier data. What should you include in the recommendation? A.   Enable instant file initialization.B.   Reorganize the indexes.C.   Disable Resource Governor.D.   Enable Auto Update Statistics. Answer: C QUESTION 57You need to recommend a solution that addresses the file storage requirements. What should you include in the recommendation? A.   FileStreamB.   FileTableC.   The varbinary data type D.   The image data type Answer: B QUESTION 58You need to recommend a solution that addresses the installation issues. What should you include in the recommendation? A.   Windows loginsB.   Server rolesC.   Contained usersD.   Database roles Answer: C QUESTION 59You need to recommend a solution that addresses the security requirement. What should you recommend? A. Revoke user permissions on the tables. Create stored procedures that manipulate data. Grant the users the EXECUTE permission on the stored procedures.B.   Grant the users the SELECT permission on the tables. Create views that retrieve data from the tables.

Grant the users the SELECT permission on the views.C.   Deny the users SELECT permission on the tables. Create views that retrieve data from the tables. Grant the users the SELECT permission on the views.D.   Deny the users the SELECT permission on the tables. Create stored procedures that manipulate data.Grant the users the EXECUTE permission on the stored procedures.

Answer: C

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