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https://docs.microsoft.com/en-us/azure/sql-database/sql-database-geo-replication-transact-sql#add-secondary-database Case Study 1 - Automobile Parts Background You manage the Microsoft SQL Server environment for a company that manufactures and sells automobile parts. The environment includes the following servers: SRV1 and SRV2. SRV1 has 16 logical cores and hosts a SQL Server instance that supports a mission-critical application. The application has approximately 30,000 concurrent users and relies heavily on the use of temporary tables. The environment also includes the following databases: DB1, DB2, and Reporting. The Reporting database is protected with Transparent Data Encryption (TDE). You plan to migrate this database to a new server. You detach the database and copy it to the new server. You are performing tuning on a SQL Server database instance. The application which uses the database was written using an object relationship mapping (ORM) tool which maps tables as objects within the application code. There are 30 stored procedures that are regularly used by the application. QUESTION 24 Hotspot Question You need to resolve the identified issues. Use the drop-down menus to select the answer choice that answers each question based on the information presented in the graphic. Answer: Explanation: From exhibit we see: Cost Threshold of Parallelism: 5 Optimize for Ad Hoc Workloads: false Max Degree of Parallelism: 0 (This is the default setting, which enables the server to determine the maximum degree of parallelism. It is fine.) Locks: 0 Query Wait: -1 Box 1: Optimize for Ad Hoc Workload Change the Optimize for Ad Hoc Workload setting from false to 1/True. The optimize for ad hoc workloads option is used to improve the efficiency of the plan cache for workloads that contain many single use ad hoc batches. When this option is set to 1, the Database Engine stores a

small compiled plan stub in the plan cache when a batch is compiled for the first time, instead of the full compiled plan. This helps to relieve memory pressure by not allowing the plan cache to become filled with compiled plans that are not reused. QUESTION 25 Hotspot Question You need to optimize SRV1. What configuration changes should you implement? To answer, select the appropriate option from each list in the answer area. Answer: Explanation: From the scenario: SRV1 has 16 logical cores and hosts a SQL Server instance that supports a mission-critical application. The application hasapproximately 30,000 concurrent users and relies heavily on the use of temporary tables. Box 1: Change the size of the tempdb log file. The size and physical placement of the tempdb database can affect the performance of a system. For example, if the size that is defined for tempdb is too small, part of the system- processing load may be taken up with autogrowing tempdb to the size required to support the workload every time you restart the instance of SQL Server. You can avoid this overhead by increasing the sizes of the tempdb data and log file. Box 2: Add additional tempdb files. Create as many files as needed to maximize disk bandwidth. Using multiple files reduces tempdb storage contention and yields significantly better scalability. However, do not create too many files because this can reduce performance and increase management overhead. As a general guideline, create one data file for each CPU on the server (accounting for any affinity mask settings) and then adjust the number of files up or down as necessary. Case Study 2 - Contoso, Ltd HOTSPOT Background You are the database administrator for Contoso, Ltd. The company has 200 offices around the world. The company has corporate executives that are located in offices in London, New York, Toronto, Sydney, and Tokyo. Contoso, Ltd. has a Microsoft Azure SQL Database environment. You plan to deploy a new Azure SQL Database to support a variety of mobile applications and public websites. The company is deploying a multi-tenant environment. The environment will host Azure SQL Database instances. The company plans to make the instances available to internal departments and partner companies. Contoso is in the final stages of setting up networking and communications for the environment. Existing Contoso and Customer instances need to be migrated to Azure virtual machines (VM) according to the following requirements: - Contoso instances - should use the method requiring the least administrative effort to migrate instances to Azure Vms. - Customer instances - should use a method that allows customers to bring their own licenses to Azure VMs. Customers have approved down time for the migration. The company plans to deploy a new order entry application and a new business intelligence and analysis application. Each application will be supported by a new database. Contoso creates a new Azure SQL database named Reporting. The database will be used to support the company's financial reporting requirements. You associate the database with the Contoso Azure Active Directory domain. Each location database for the data entry application may have an unpredictable amount of activity. Data must be replicated to secondary databases in Azure datacenters in different regions. To support the application, you need to create a database named contosodb1 in the existing environment. Objects Database The contosodb1 database must support the following requirements: - a size of at least 200 gigabytes (GB) - 1,000 concurrent sessions - point-in-time restore to any point in the two weeks prior to a failure - minimize costs Application For the business intelligence application, corporate executives must be able to view all data in near real-time with low network latency. Contoso has the following security, networking, and communications requirements: - Multi-Location Load Balancing - to ensure customers have access to their tenants at multiple Azure locations across the world. - Secure Message/Data Flow - to securely support communication between Azure and on-premises applications and services. - Accounts should support accessing external domain resources and be configured in the most secure and lowest-maintenance way possible, including meeting the company policy of regular service account password changes. QUESTION 26 Hotspot Question You need to configure the data entry and business intelligence databases. In the table below, identify the option that you must use for each database. NOTE: Make only one selection in each column. Answer: Explanation: Data Entry: Geo-replicated database only From Contoso scenario: Each location database for the data entry application may have an unpredictable amount of activity. Data must be replicated to secondary databases in Azure datacenters in different regions. Business intelligence: Elastic database pools only From Contoso scenario: For the business intelligence application, corporate executives must be able to view all data in near real-time with low network latency. SQL DB elastic pools provide a simple cost effective solution to manage the performance goals for multiple databases that have widely varying and unpredictable usage patterns. https://docs.microsoft.com/en-us/azure/sql-database/sql-database-elastic-pool QUESTION 27 Hotspot Question You need to create the contosodb1 database. How should you complete the Azure PowerShell command? To answer, select the appropriate Azure PowerShell segments in the answer area. Answer: Explanation: Box 1: New-AzureRmSqlDatabase New-AzureRmSqlDatabase creates a database or an elastic database. New-AzureRmSqlDatabase is a command with the Azure Resource Manager (AzureRM) module.Azure Resource Manager enables you to work with the resources in your solution as a group. Case Study 3 - SQL Server Reporting Background You manage a Microsoft SQL Server environment that includes the following databases: DB1, DB2, Reporting. The environment also includes SQL Reporting Services (SSRS) and SQL Server Analysis Services (SSAS). All SSRS and SSAS servers use named instances. You configure a firewall rule for SSAS. Databases Database Name: DB1 Notes: This database was migrated from SQL Server 2012 to SQL Server 2016. Thousands of

records are inserted into DB1 or updated each second. Inserts are made by many different external applications that your company's developers do not control. You observe that transaction log write latency is a bottleneck in performance. Because of the transient nature of all the data in this database, the business can tolerate some data loss in the event of a server shutdown. Database Name: DB2 Notes: This database was migrated from SQL Server 2012 to SQL Server 2016. Thousands of records are updated or inserted per second. You observe that the WRITELOG wait type is the highest aggregated wait type. Most writes must have no tolerance for data loss in the event of a server shutdown. The business has identified certain write queries where data loss is tolerable in the event of a server shutdown. Database Name: Reporting Notes: You create a SQL Server-authenticated login named BIAppUser on the SQL Server instance to support users of the Reporting database. The BIAppUser login is not a member of the sysadmin role. You plan to configure performance-monitoring alerts for this instance by using SQL Agent Alerts. QUESTION 28 Drag and Drop Question You create a login named BIAppUser. The login must be able to access the Reporting database. You need to grant access to the BIAppUser login in the database. How should you complete the Transact-SQL statements? To answer, drag the appropriate Transact-SQL segments to the correct locations. Each Transact-SQL segment 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: Explanation: Box 1: Reporting The user is to be created in the Reporting database. Box 2: CREATE USER Box 3: FOR LOGIN [BIAppUser] Users are created per database and are associated with logins. You must be connected to the database in where you want to create the user. Here is some sample Transact-SQL that creates a user: CREATE USER readonlyuser FROM LOGIN readonlylogin; https://azure.microsoft.com/en-us/blog/adding-users-to-your-sql-azure- database/ QUESTION 29 Hotspot Question You need to maximize performance of writes to each database without requiring changes to existing database tables. In the table below, identify the database setting that you must configure for each database. NOTE: Make only one selection in each column. Each correct selection is worth one point. Answer: Explanation: DB1: DELAYED_DURABILITY=FORCED From scenario: Thousands of records are inserted into DB1 or updated each second. Inserts are made by many different external applications that your company's developers do not control. You observe that transaction log write latency is a bottleneck in performance. Because of the transient nature of all the data in this database, the business can tolerate some data loss in the event of a server shutdown. With the DELAYED_DURABILITY=FORCED setting, every transaction that commits on the database is delayed durable. With the DELAYED_DURABILITY= ALLOWED setting, each transaction's durability is determined at the transaction level. Note: Delayed transaction durability reduces both latency and contention within the system because: * The transaction commit processing does not wait for log IO to finish and return control to the client. * Concurrent transactions are less likely to contend for log IO; instead, the log buffer can be flushed to disk in larger chunks, reducing contention, and increasing throughput. DB2: ALLOW_SNAPSHOT_ISOLATION ON and READ_COMMITTED_SNAPSHOT ON Snapshot isolation enhances concurrency for OLTP applications. Snapshot isolation must be enabled by setting the ALLOW_SNAPSHOT_ISOLATION ON database option before it is used in transactions. The following statements activate snapshot isolation and replace the default READ COMMITTED behavior with SNAPSHOT: ALTER DATABASE MyDatabase SET ALLOW_SNAPSHOT_ISOLATION ON ALTER DATABASE MyDatabase SET READ_COMMITTED_SNAPSHOT ON Setting the READ_COMMITTED_SNAPSHOT ON option allows access to versioned rows under the default READ COMMITTED isolation level. From scenario: The DB2 database was migrated from SQLServer 2012 to SQL Server 2016. Thousands of records are updated or inserted per second. You observe that the WRITELOG wait type is the highest aggregated wait type. Most writes must have no tolerance for data loss in the event of a server shutdown. The business has identified certain write queries where data loss is tolerable in the event of a server shutdown. https://msdn.microsoft.com/en-us/library/dn449490.aspx https://msdn.microsoft.com/en-us/library/tcbchxcb(v=vs.110).aspx QUESTION 30 Hotspot Question You need to set up the service accounts that the database engine and SQL Server Agent services will use. How should you design the solution? To answer, select the appropriate configuration options in the answer area. Answer: Explanation: Box 1: Domain Account The service startup account defines the Microsoft Windows account in which SQL Server Agent runs and its network permissions. SQL Server Agent runs as a specified user account. You select an account for the SQL Server Agent service by using SQL Server Configuration Manager, where you can choose fromthe following options: * Built-in account. You can choose from a list of the following built-in Windows service accounts: Local System account. * This account. Lets you specify the Windows domain account in which the SQL Server Agent service runs. Box2: Domain users Microsoft recommends choosing a Windows user account that is not a member of the Windows Administrators group. Box 3: Managed Service Accounts When resources external to the SQL Server computer are needed, Microsoft recommends using a Managed Service Account (MSA), configured with the minimum privileges necessary. Note: A Managed Service Account (MSA) can run services on a computer in a secure and easy to maintain manner, while maintaining the capability to connect to network resources as a specific user principal. https://msdn.microsoft.com/en-us/library/ms191543.aspx Lead2pass is no doubt your best choice. Using the Microsoft 70-765 exam

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