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Microsoft DP-300 certification exam is designed for IT professionals who are looking to showcase their skills in administering relational databases on Microsoft Azure. Administering Relational Databases on Microsoft Azure certification exam is an excellent way to demonstrate your knowledge and expertise in managing databases on Azure, and it is highly valued by employers who are looking for skilled professionals to manage their data.

To prepare for the Microsoft DP-300 Exam, candidates are advised to have a strong understanding of database administration concepts and practices, as well as familiarity with the Microsoft Azure cloud platform. Microsoft offers a range of training courses and study materials to help candidates prepare for the exam, including instructor-led training, online courses, and study guides. Additionally, candidates can take advantage of practice exams and other resources to ensure that they are fully prepared for the exam.

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Microsoft Administering Relational Databases on Microsoft Azure Sample Questions (Q365-Q370):

NEW QUESTION # 365

You have a burstable Azure virtual machine named VMI that hosts an instance of Microsoft SQL Server.
You need to attach an Azure ultra disk to VMI. The solution must minimize downtime on VMI.
In which order should you perform the actions? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

Answer:

Explanation:

Explanation

NEW QUESTION # 366

You have an Azure SQL database named DB1 that contains two tables named Table1 and Table2. Both tables contain a column named a Column1. Column1 is used for joins by an application named App1.
You need to protect the contents of Column1 at rest, in transit, and in use.
How should you protect the contents of Column1? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
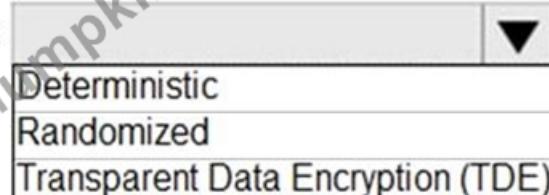
Answer:

Explanation:

Reference:
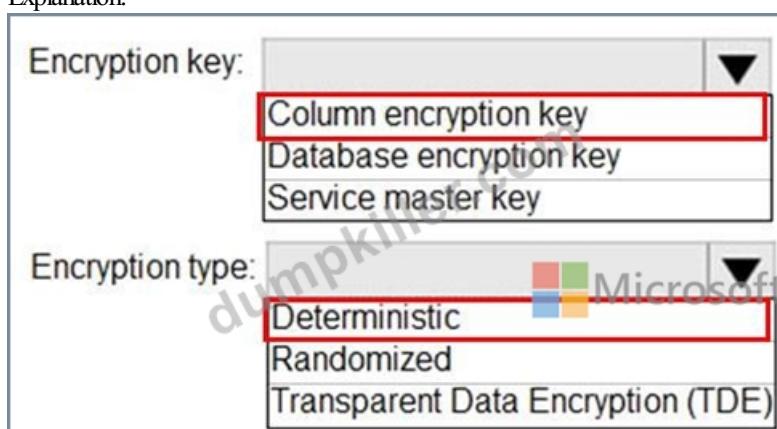
https://docs.microsoft.com/en-us/sql/relational-databases/security/encryption/always-encrypted-database-engine

NEW QUESTION # 367

You need to recommend a solution to ensure that the customers can create the database objects. The solution must meet the business goals.

What should you include in the recommendation?

- A. For each customer, create an additional schema and grant the customer db_writer to the new schema.
- B. For each customer, grant the customer ddl_admin to the existing schema.
- C. For each customer, grant the customer db_writer to the existing schema.
- D. For each customer, create an additional schema and grant the customer ddl_admin to the new schema.

Answer: C

Explanation:

Topic 1, Litware

Existing Environment

Network Environment

The manufacturing and research datacenters connect to the primary datacenter by using a VPN.

The primary datacenter has an ExpressRoute connection that uses both Microsoft peering and private peering. The private peering connects to an Azure virtual network named HubVNet.

Identity Environment

Litware has a hybrid Azure Active Directory (Azure AD) deployment that uses a domain named litwareinc.com. All Azure subscriptions are associated to the litwareinc.com Azure AD tenant.

Database Environment

The sales department has the following database workload:

An on-premises named SERVER1 hosts an instance of Microsoft SQL Server 2012 and two 1-TB databases.

A logical server named SalesSrv01A contains a geo-replicated Azure SQL database named SalesSQLDb1. SalesSQLDb1 is in an

elastic pool named SalesSQLDb1Pool. SalesSQLDb1 uses database firewall rules and contained database users.

An application named SalesSQLDb1App1 uses SalesSQLDb1.

The manufacturing office contains two on-premises SQL Server 2016 servers named SERVER2 and SERVER3. The servers are nodes in the same Always On availability group. The availability group contains a database named ManufacturingSQLDb1 Database administrators have two Azure virtual machines in HubVnet named VM1 and VM2 that run Windows Server 2019 and are used to manage all the Azure databases.

Licensing Agreement

Litware is a Microsoft Volume Licensing customer that has License Mobility through Software Assurance.

Current Problems

SalesSQLDb1 experiences performance issues that are likely due to out-of-date statistics and frequent blocking queries.

Requirements

Planned Changes

Litware plans to implement the following changes:

Implement 30 new databases in Azure, which will be used by time-sensitive manufacturing apps that have varying usage patterns. Each database will be approximately 20 GB.

Create a new Azure SQL database named ResearchDB1 on a logical server named ResearchSrv01. ResearchDB1 will contain Personally Identifiable Information (PII) data.

Develop an app named ResearchApp1 that will be used by the research department to populate and access ResearchDB1.

Migrate ManufacturingSQLDb1 to the Azure virtual machine platform.

Migrate the SERVER1 databases to the Azure SQL Database platform.

Technical Requirements

Litware identifies the following technical requirements:

Maintenance tasks must be automated.

The 30 new databases must scale automatically.

The use of an on-premises infrastructure must be minimized.

Azure Hybrid Use Benefits must be leveraged for Azure SQL Database deployments.

All SQL Server and Azure SQL Database metrics related to CPU and storage usage and limits must be analyzed by using Azure built-in functionality.

Security and Compliance Requirements

Litware identifies the following security and compliance requirements:

Store encryption keys in Azure Key Vault.

Retain backups of the PII data for two months.

Encrypt the PII data at rest, in transit, and in use.

Use the principle of least privilege whenever possible.

Authenticate database users by using Active Directory credentials.

Protect Azure SQL Database instances by using database-level firewall rules.

Ensure that all databases hosted in Azure are accessible from VM1 and VM2 without relying on public endpoints.

Business Requirements

Litware identifies the following business requirements:

Meet an SLA of 99.99% availability for all Azure deployments.

Minimize downtime during the migration of the SERVER1 databases.

Use the Azure Hybrid Use Benefits when migrating workloads to Azure.

Once all requirements are met, minimize costs whenever possible.

NEW QUESTION # 368

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have two Azure SQL Database servers named Server1 and Server2. Each server contains an Azure SQL database named Database1.

You need to restore Database1 from Server1 to Server2. The solution must replace the existing Database1 on Server2.

Solution: From the Azure portal, you delete Database1 from Server2, and then you create a new database on Server2 by using the backup of Database1 from Server1.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:
Instead restore Database1 from Server1 to the Server2 by using the RESTORE Transact-SQL command and the REPLACE option.
Note: REPLACE should be used rarely and only after careful consideration. Restore normally prevents accidentally overwriting a database with a different database. If the database specified in a RESTORE statement already exists on the current server and the specified database family GUID differs from the database family GUID recorded in the backup set, the database is not restored. This is an important safeguard.
Reference:
https://docs.microsoft.com/en-us/sql/t-sql/statements/restore-statements-transact-sql

NEW QUESTION # 369
You are building an Azure Stream Analytics job to retrieve game data.
You need to ensure that the job returns the highest scoring record for each five-minute time interval of each game.
How should you complete the Stream Analytics query? To answer, select the appropriate options in the answer area.
NOTE:Each correct selection is worth one point.


```
SELECT                                          ▼  as HighestScore
       Collect(Score)
       CollectTop(1)OVER(ORDER BY Score Desc)
       Game, MAX(Score)
       TopOne() OVER(PARTITION BY Game ORDER BY Score Desc)

FROM input TIMESTAMP BY CreatedAt

GROUP BY                                ▼
         Game
         Hopping(minute, 5)
         Tumbling(minute, 5)
         Windows(TumblingWindow(minute, 5), Hopping(minute, 5))
```

Answer:

Explanation:


```
SELECT                                          ▼  as HighestScore
       Collect(Score)
       CollectTop(1)OVER(ORDER BY Score Desc)
       Game, MAX(Score)
       TopOne() OVER(PARTITION BY Game ORDER BY Score Desc)

FROM input TIMESTAMP BY CreatedAt

GROUP BY                                ▼
         Game
         Hopping(minute, 5)
         Tumbling(minute, 5)
         Windows(TumblingWindow(minute, 5), Hopping(minute, 5))
```

Explanation
Graphical user interface, text, application, email Description automatically generated

Box 1: TopOne() OVER(PARTITION BY Game ORDER BY Score Desc)

TopOne returns the top-rank record, where rank defines the ranking position of the event in the window according to the specified ordering. Ordering/ranking is based on event columns and can be specified in ORDER BY clause.

Analytic Function Syntax:

TopOne() OVER ([<PARTITION BY clause>] ORDER BY (<column name> [ASC |DESC])+ <LIMIT DURATION clause> [<WHEN clause>]) Box 2: Tumbling(minute 5) Tumbling window functions are used to segment a data stream into distinct time segments and perform a function against them, such as the example below. The key differentiators of a Tumbling window are that they repeat, do not overlap, and an event cannot belong to more than one tumbling window.
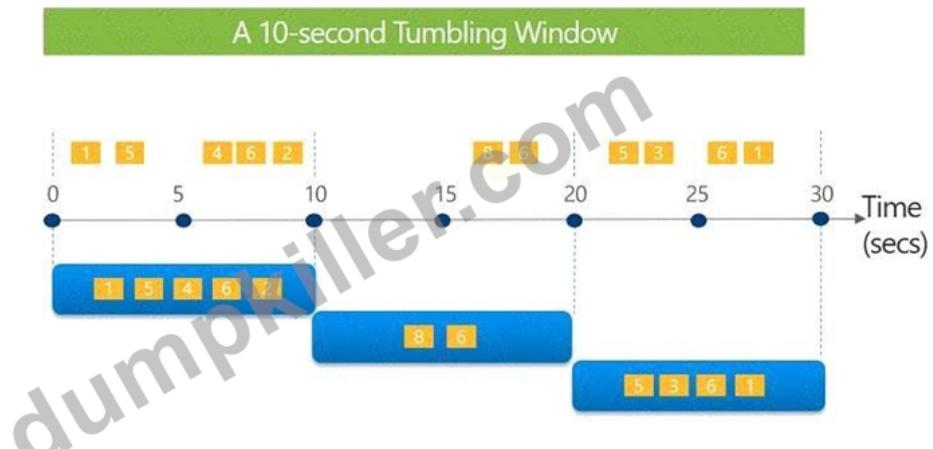
Reference:

https://docs.microsoft.com/en-us/stream-analytics-query/topone-azure-stream-analytics

https://github.com/MicrosoftDocs/azure-docs/blob/master/articles/stream-analytics/stream-analytics-window-fun

NEW QUESTION # 370

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