DP-300 Q&As

Administering Relational Databases on Microsoft Azure

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QUESTION 1

You have an Azure SQL database. The database contains a table that uses a columnstore index and is accessed infrequently.

You enable columnstore archival compression.

What are two possible results of the configuration? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Queries that use the index will consume more disk I/O.

B. Queries that use the index will retrieve fewer data pages.

C. The index will consume more disk space.

D. The index will consume more memory.

E. Queries that use the index will consume more CPU resources.

Correct Answer: BE

For rowstore tables and indexes, use the data compression feature to help reduce the size of the database. In addition to saving space, data compression can help improve performance of I/O intensive workloads because the data is stored in fewer pages and queries need to read fewer pages from disk.

Use columnstore archival compression to further reduce the data size for situations when you can afford extra time and CPU resources to store and retrieve the data.

QUESTION 2

You have the following Azure Data Factory pipelines:

1.

Ingest Data from System1

2.

Ingest Data from System2

3.

Populate Dimensions

4.

Populate Facts

Ingest Data from System1 and Ingest Data from System2 have no dependencies. Populate Dimensions must execute after Ingest Data from System1 and Ingest Data from System2. Populate Facts must execute after the Populate Dimensions pipeline. All the pipelines must execute every eight hours.

What should you do to schedule the pipelines for execution?

A. Add a schedule trigger to all four pipelines.

B. Add an event trigger to all four pipelines.

C. Create a parent pipeline that contains the four pipelines and use an event trigger.

D. Create a parent pipeline that contains the four pipelines and use a schedule trigger.

Correct Answer: D

Reference: https://www.mssqltips.com/sqlservertip/6137/azure-data-factory-control-flow-activities-overview/

QUESTION 3

You have SQL Server on Azure virtual machines in an availability group.

You have a database named DB1 that is NOT in the availability group.

You create a full database backup of DB1.

You need to add DB1 to the availability group.

Which restore option should you use on the secondary replica?

A. Restore with Recovery

B. Restore with Norecovery

C. Restore with Standby

Correct Answer: B

Prepare a secondary database for an Always On availability group requires two steps:

1.

Restore a recent database backup of the primary database and subsequent log backups onto each server instance that hosts the secondary replica, using RESTORE WITH NORECOVERY

2.

Join the restored database to the availability group.

Reference:

https://docs.microsoft.com/en-us/sql/database-engine/availability-groups/windows/manually-prepare-a- secondary-database-for-an-availability-group-sql-server

QUESTION 4

HOTSPOT

You have an on-premises Microsoft SQL Server 2019 instance that hosts a database named DB1.

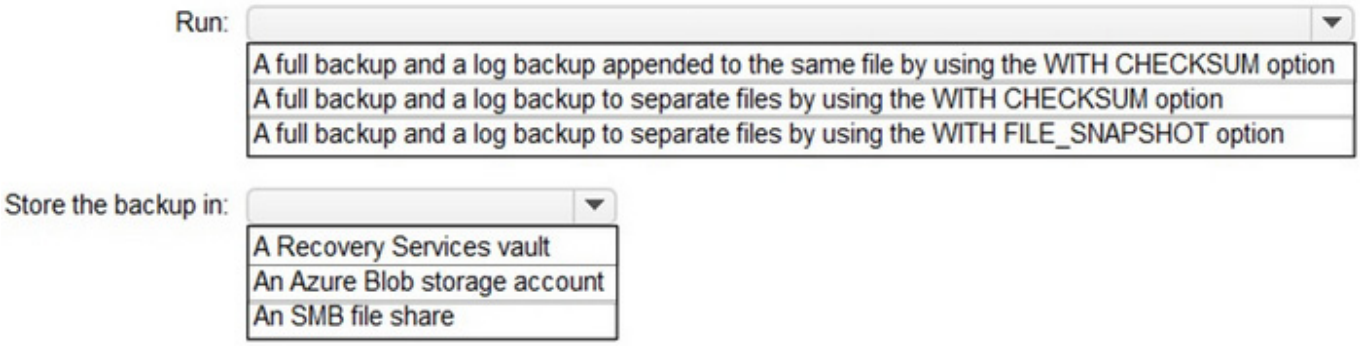
You plan to perform an online migration of DB1 to an Azure SQL managed instance by using the Azure Database Migration Service.

You need to create a backup of DB1 that is accessible to the Azure Database Migration Service.

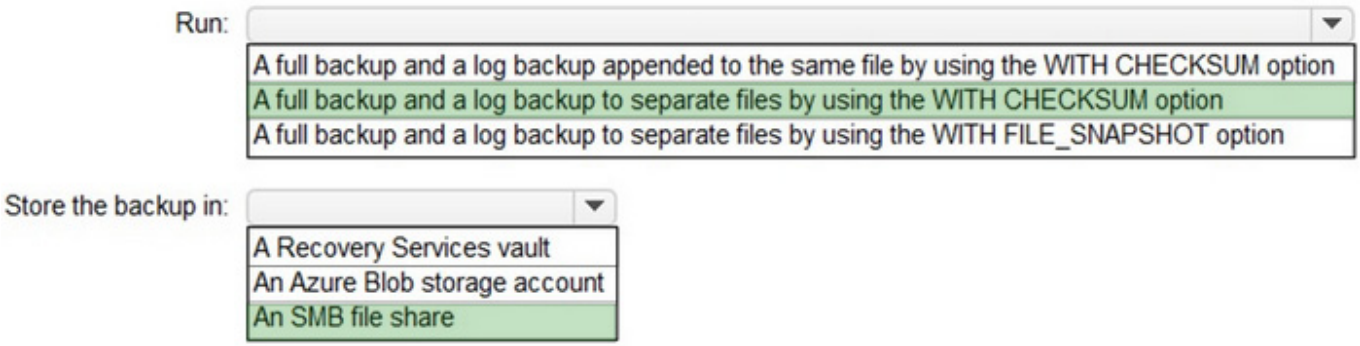
What should you run for the backup and where should you store the backup? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:



Reference: https://docs.microsoft.com/en-us/azure/dms/tutorial-sql-server-managed-instance-online

QUESTION 5

You have a Microsoft SQL Server 2019 instance in an on-premises datacenter. The instance contains a 4- TB database named DB1.

You plan to migrate DB1 to an Azure SQL Database managed instance.

What should you use to minimize downtime and data loss during the migration?

A. distributed availability groups

B. database mirroring

C. log shipping

D. Database Migration Assistant

Correct Answer: D

Ref: https://docs.microsoft.com/en-us/azure/dms/tutorial-sql-server-to-azure-sql