

Microsoft

Exam Questions DP-300

Administering Relational Databases on Microsoft Azure (beta)



NEW QUESTION 1

- (Exam Topic 5)

You have a new Azure SQL database. The database contains a column that stores confidential information. You need to track each time values from the column are returned in a query. The tracking information must be stored for 365 days from the date the query was executed.

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

NOTE: Each correct selection is worth one point.

- A. Turn on auditing and write audit logs to an Azure Storage account.
- B. Add extended properties to the column.
- C. Turn on Advanced Data Security for the Azure SQL server.
- D. Apply sensitivity labels named Highly Confidential to the column.
- E. Turn on Azure Advanced Threat Protection (ATP).

Answer: ACD

Explanation:

C: Advanced Data Security (ADS) is a unified package for advanced SQL security capabilities. ADS is available for Azure SQL Database, Azure SQL Managed Instance, and Azure Synapse Analytics. It includes functionality for discovering and classifying sensitive data

D: You can apply sensitivity-classification labels persistently to columns by using new metadata attributes that have been added to the SQL Server database engine. This metadata can then be used for advanced, sensitivity-based auditing and protection scenarios.

A: An important aspect of the information-protection paradigm is the ability to monitor access to sensitive data. Azure SQL Auditing has been enhanced to include a new field in the audit log called data_sensitivity_information. This field logs the sensitivity classifications (labels) of the data that was returned by a query. Here's an example:

d	client_ip	application_name	duration_milliseconds	response_rows	affected_rows	connection_id	data_sensitivity_information
	7.125	Microsoft SQL Server Management Studio - Query	1	847	847	C244A066-2271-...	Confidential - GDPR
	7.125	Microsoft SQL Server Management Studio - Query	2	32	32	C244A066-2271-...	Confidential
	7.125	Microsoft SQL Server Management Studio - Query	41	32	32	A7088FD4-759E-...	Confidential, Confidential - GDPR

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/data-discovery-and-classification-overview>

NEW QUESTION 2

- (Exam Topic 5)

You have an Azure subscription that uses a domain named contoso.com.

You have two Azure VMs named DBServer1 and DBServer2. Each of them hosts a default SQL Server instance. DBServer1 is in the East US Azure region and contains a database named DatabaseA. DBServer2 is in the West US Azure region.

DBServer1 has a high volume of data changes and low latency requirements for data writes.

You need to configure a new availability group for DatabaseA. The secondary replica will reside on DBServer2.

What should you do?

- A. Configure the primary endpoint as TCP://DBServer1.contoso.com:445, configure the secondary endpoint as TCP://DBServer2.contoso.com:445, and set the availability mode to Asynchronous.
- B. Configure the primary endpoint as TCP://DBServer1.contoso.com:445, configure the secondary endpoint as TCP://DBServer2.contoso.com:445, and set the availability mode to Synchronous.
- C. Configure the primary endpoint as TCP://DBServer1.contoso.com:5022, configure the secondary endpoint as TCP://DBServer2.contoso.com:5022, and set the availability mode to Asynchronous.
- D. Configure the primary endpoint as TCP://DBServer1.contoso.com:5022, configure the secondary endpoint as TCP://DBServer2.contoso.com:5022, and set the availability mode to Synchronous.

Answer: C

Explanation:


Reference:


<https://docs.microsoft.com/en-us/sql/database-engine/availability-groups/windows/availability-modes-always-on>


NEW QUESTION 3


- (Exam Topic 5)


You configure version control for an Azure Data Factory instance as shown in the following exhibit.


Connections


Linked services


Integration runtimes


Azure Purview (Preview)


Source control


Git configuration


ARM template

Parameterization template

Triggers



Global parameters

Customer managed key

Managed private endpoints

Git repository

Git repository information associated with your data factory. [CI/CD best practices](#)

Setting Disconnect

Repository type

Azure DevOps Git

Azure DevOps Account

CONTOSO

Project name

Data

Repository name

dwh_batchetl

Collaboration branch

main

Publish branch

adf_publish

Root folder

/

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.
NOTE:Each correct selection is worth one point.

Azure Resource Manager (ARM) templates for the pipeline assets as stored in

/

adf_publish

main

Parameterization template

A Data Factory Azure Resource Manager (ARM) template named contososales can be found in

/contososales

/dwh_batchetl/adf_publish/contososales

/main

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application Description automatically generated
Box 1: adf_publish
By default, data factory generates the Resource Manager templates of the published factory and saves them into a branch called adf_publish. To configure a custom publish branch, add a publish_config.json file to the root folder in the collaboration branch. When publishing, ADF reads this file, looks for the field publishBranch, and saves all Resource Manager templates to the specified location. If the branch doesn't exist, data factory will automatically create it. And example of what this file looks like is below:
{
"publishBranch": "factory/adf_publish"
}
Box 2: /dwh_barchlet/ adf_publish/contososales
RepositoryName: Your Azure Repos code repository name. Azure Repos projects contain Git repositories to manage your source code as your project grows. You can create a new repository or use an existing repository that's already in your project.
Reference:
https://docs.microsoft.com/en-us/azure/data-factory/source-control

NEW QUESTION 4

- (Exam Topic 5)
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.

Run:

A full backup and a log backup appended to the same file by using the WITH CHECKSUM option

A full backup and a log backup to separate files by using the WITH CHECKSUM option

A full backup and a log backup to separate files by using the WITH FILE_SNAPSHOT option

Store the backup in:

A Recovery Services vault

An Azure Blob storage account

An SMB file share

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:
Graphical user interface, application, Word Description automatically generated
Reference:
<https://docs.microsoft.com/en-us/azure/dms/tutorial-sql-server-managed-instance-online>

NEW QUESTION 5

- (Exam Topic 5)
You create a new Azure SQL managed instance named SQL1 and enable Database Mail extended stored procedures.
You need to ensure that SOL Server Agent jobs running on SQL 1 can notify administrators when a failure occurs.
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

Enable pager notifications upon failure.

Create a profile named application_dbmail_profile.

Create a Database Mail account.

Create a profile named AzureManagedInstance_dbmail_profile.

Enable email notifications upon failure.

>

<

Answer Area

1

2

3

- A. Mastered
- B. Not Mastered

Answer: A

Actions

Enable pager notifications upon failure.

Create a profile named application_dbmail_profile.

Create a Database Mail account.

Create a profile named AzureManagedInstance_dbmail_profile.

Enable email notifications upon failure.

>

<

Answer Area

1

Create a Database Mail account.

2

3

Create a profile named AzureManagedInstance_dbmail_profile.

Enable email notifications upon failure.

NEW QUESTION 6

- (Exam Topic 5)
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 SQL Server 2019 on an Azure virtual machine.
You are troubleshooting performance issues for a query in a SQL Server instance.
To gather more information, you query sys.dm_exec_requests and discover that the wait type is PAGELATCH_UP and the wait_resource is 2:3:905856.
You need to improve system performance.
Solution: You reduce the use of table variables and temporary tables. Does this meet the goal?

- A. Yes
- B. No

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Answer: A

Explanation:

Reference:

<https://docs.microsoft.com/en-US/troubleshoot/sql/performance/recommendations-reduce-allocation-contention>

NEW QUESTION 7

- (Exam Topic 5)

Your company analyzes images from security cameras and sends alerts to security teams that respond to unusual activity. The solution uses Azure Databricks.

You need to send Apache Spark level events, Spark Structured Streaming metrics, and application metrics to Azure Monitor.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions in the answer area and arrange them in the correct order.

Actions

Answer Area

Deploy Grafana to an Azure virtual machine.

Build a **spark-listeners-loganalytics-1.0-SNAPSHOT.jar** JAR file.

Create Dropwizard counters in the application code.

Create a data source in Azure Monitor.

Configure the Databricks cluster to use the Databricks monitoring library.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application Description automatically generated with medium confidence

Send application metrics using Dropwizard.

Spark uses a configurable metrics system based on the Dropwizard Metrics Library.

To send application metrics from Azure Databricks application code to Azure Monitor, follow these steps: Step 1: Configure your Azure Databricks cluster to use the Databricksmonitoring library.

Prerequisite: Configure your Azure Databricks cluster to use the monitoring library. Step 2: Build the spark-listeners-loganalytics-1.0-SNAPSHOT.jar JAR file

Step 3: Create Dropwizard counters in your application code Create Dropwizard gauges or counters in your application code

NEW QUESTION 8

- (Exam Topic 5)

You have an Azure Data Factory that contains 10 pipelines.

You need to label each pipeline with its main purpose of either ingest, transform, or load. The labels must be available for grouping and filtering when using the monitoring experience in Data Factory.

What should you add to each pipeline?

- A. an annotation
- B. a resource tag
- C. a run group ID
- D. a user property
- E. a correlation ID

Answer: A

Explanation:

Azure Data Factory annotations help you easily filter different Azure Data Factory objects based on a tag. You can define tags so you can see their performance or find errors faster.

Reference:

<https://www.techtalkcorner.com/monitor-azure-data-factory-annotations/>

NEW QUESTION 9

- (Exam Topic 5)

You have a Microsoft SQL Server 2017 server.

You need to migrate the server to Azure. The solution must meet the following requirements:

- Ensure that the latest version of SQL Server is used.
- Support the SQL Server Agent service. Minimize administrative effort.

What should you use?

- A. SQL Server on Azure Virtual Machines
- B. Azure SQL Database
- C. an Azure SQL Database elastic pool

D. Azure SQL Managed Instance

Answer: D

NEW QUESTION 10

- (Exam Topic 5)

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.

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You have an Azure Data Lake Storage account that contains a staging zone.

You need to design a daily process to ingest incremental data from the staging zone, transform the data by executing an R script, and then insert the transformed data into a data warehouse in Azure Synapse Analytics.

Solution: You schedule an Azure Databricks job that executes an R notebook, and then inserts the data into the data warehouse.

Does this meet the goal?

A. Yes

B. No

Answer: B

Explanation:

Must use an Azure Data Factory, not an Azure Databricks job. Reference:

<https://docs.microsoft.com/en-US/azure/data-factory/transform-data>

NEW QUESTION 10

- (Exam Topic 5)

You have an Azure SQL database named DB 1 in the General Purpose service tier. You need to monitor DB 1 by using SQL Insights.

What should you include in the solution? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

To collect monitoring data, use:

- ☐ A virtual machine
- ☒ An Azure function
- ☐ The Azure Monitor agent

To store monitoring data, create:

- ☐ A Log Analytics workspace
- ☐ An Azure SQL database
- ☒ An Azure Storage account

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Box 1 = Azure Monitor Agent Box 2 = An Azure SQL database

<https://docs.microsoft.com/en-us/azure/azure-sql/database/sql-database-paas-overview?view=azuresql>

NEW QUESTION 12

- (Exam Topic 5)

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 an Azure SQL database named Sales.

You need to implement disaster recovery for Sales to meet the following requirements:

> During normal operations, provide at least two readable copies of Sales.

> Ensure that Sales remains available if a datacenter fails.

Solution: You deploy an Azure SQL database that uses the General Purpose service tier and geo-replication. Does this meet the goal?

A. Yes

B. No

Answer: B

Explanation:

Instead deploy an Azure SQL database that uses the Business Critical service tier and Availability Zones. Note: Premium and Business Critical service tiers leverage the Premium availability model, which integrates compute resources (sqlservr.exe process) and storage (locally attached SSD) on a single node. High availability is achieved by replicating both compute and storage to additional nodes creating a three to four-node cluster.

By default, the cluster of nodes for the premium availability model is created in the same datacenter. With the introduction of Azure Availability Zones, SQL Database can place different replicas of the Business Critical database to different availability zones in the same region. To eliminate a single point of failure, the control ring is also duplicated across multiple zones as three gateway rings (GW).

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/high-availability-sla>

NEW QUESTION 14

- (Exam Topic 5)
You have an Azure SQL database named D61.
You need to identify how much unused space in megabytes was allocated to DB1.
How should you complete the Transact-SQL query? To answer select the appropriate options m the answer area.
NOTE: Each correct selection is worth one point.

Answer Area

SELECT SUM(size/

128.0

- CAST(FILEPROPERTY(name, 'SpaceUsed') AS int)/128.0) AS DatabaseDataSpaceAllocatedUnusedInMB

FROM sys.databases

16.0

128.0

512.0

FROM sys.database_files

sys.database_files

sys.resource_stats

HAVING t: sys.dm_db_resource_stats

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

SELECT SUM(size/

128.0

- CAST(FILEPROPERTY(name, 'SpaceUsed') AS int)/128.0) AS DatabaseDataSpaceAllocatedUnusedInMB

FROM sys.databases

16.0

128.0

512.0

FROM sys.database_files

sys.database_files

sys.resource_stats

HAVING t: sys.dm_db_resource_stats

NEW QUESTION 16

- (Exam Topic 5)
You have an Azure Active Directory (Azure AD) tenant named contoso.com that contains a user named user1@contoso.com and an Azure SQL managed instance named SQLMI1.
You need to ensure that user1@contoso.com can create logins in SQLMI1 that map to Azure AD service principals.
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

Run CREATE LOGIN user1@contoso.com FROM EXTERNAL PROVIDER on the master database.

Run ALTER SERVER ROLE securityadmin ADD MEMBER user1@contoso.com.

Create a managed identity for SQLMI1.

Grant SQLMI1 read access to Azure AD.

Run CREATE USER user1@contoso.com FROM LOGIN user1@contoso.com.

Answer Area

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>

↑

↓

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Text Description automatically generated with medium confidence
Reference:
<https://docs.microsoft.com/en-us/azure/azure-sql/managed-instance/aad-security-configure-tutorial>

NEW QUESTION 19

- (Exam Topic 5)
You have a SQL Server on Azure Virtual Machines instance that hosts a 10-TB SQL database named DB1. You need to identify and repair any physical or logical corruption in DB1. The solution must meet the

following requirements:

- Minimize how long it takes to complete the procedure.
- Minimize data loss.

How should you complete the command? To answer, select the appropriate options in the answer area NOTE: Each correct selection is worth one point.

Answer Area

DBCC CHECK [DB1],

▼

NOINDEX
REPAIR_ALLOW_DATA_LOSS
REPAIR_FAST
REPAIR_REBUILD

) WITH

▼

EXTENDED_LOGICAL_CHECKS;
PHYSICAL_ONLY;
TABLOCK;

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

DBCC CHECK [DB1],

▼

NOINDEX
REPAIR_ALLOW_DATA_LOSS
REPAIR_FAST
REPAIR_REBUILD

) WITH

▼

EXTENDED_LOGICAL_CHECKS;
PHYSICAL_ONLY;
TABLOCK;

NEW QUESTION 20

- (Exam Topic 5)
You have an on-premises multi-tier application named App1 that includes a web tier, an application tier, and a Microsoft SQL Server tier. All the tiers run on Hyper-V virtual machines.
Your new disaster recovery plan requires that all business-critical applications can be recovered to Azure. You need to recommend a solution to fail over the database tier of App1 to Azure. The solution must provide the ability to test failover to Azure without affecting the current environment.
What should you include in the recommendation?

- A. Azure Backup
B. Azure Information Protection
C. Windows Server Failover Cluster
D. Azure Site Recovery

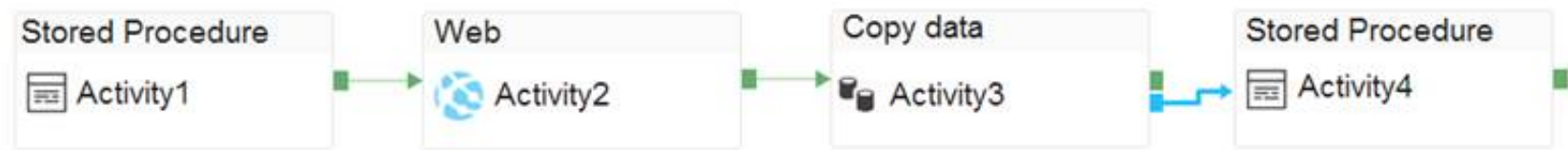
Answer: D

Explanation:

Reference:
<https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-test-failover-to-azure>

NEW QUESTION 21

- (Exam Topic 5)
You have an Azure data factory that has two pipelines named PipelineA and PipelineB. PipelineA has four activities as shown in the following exhibit.



PipelineB has two activities as shown in the following exhibit.



You create an alert for the data factory that uses Failed pipeline runs metrics for both pipelines and all failure types. The metric has the following settings:

- > Operator: Greater than
- > Aggregation type: Total
- > Threshold value: 2
- > Aggregation granularity (Period): 5 minutes
- > Frequency of evaluation: Every 5 minutes

Data Factory monitoring records the failures shown in the following table.

Pipeline	Activity	Time
PipelineA	Activity1	31-Jan-2020 10:44:00
PipelineA	Activity3	31-Jan-2020 10:47:00
PipelineB	Activity1	31-Jan-2020 10:50:00

For each of the following statements, select Yes if the statement is true. Otherwise, select No.
 NOTE:Each correct selection is worth one point.

Statements	Yes	No
An alert notification was sent after the failure of Activity1 in PipelineA.	<input type="radio"/>	<input type="radio"/>
An alert notification was sent after the failure of Activity3 in PipelineA.	<input type="radio"/>	<input type="radio"/>
An alert notification was sent after the failure of Activity1 in PipelineB.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

Text Description automatically generated

Box 1: No

Just one failure within the 5-minute interval. Box 2: No

Just two failures within the 5-minute interval. Box 3: No

Just two failures within the 5-minute interval. Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/alerts/alerts-metric-overview>

NEW QUESTION 24

- (Exam Topic 5)


You plan to migrate on-premises Microsoft SQL Server databases to Azure.

You need to identify which deployment and resiliency options meet the following requirements:

- > Support user-initiated backups.
- > Support multiple automatically replicated instances across Azure regions.
- > Minimize administrative effort to implement and maintain business continuity. What should you identify? To answer, select the appropriate options in the answer area.

NOTE:Each correct selection is worth one point.

Deployment option:




Azure SQL Managed Instance

SQL Server on Azure Virtual Machines

An Azure SQL Database single database

Resiliency option:



Auto-failover group

Active geo-replication

Zone-redundant deployment

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

Box 1: SQL Server on Azure VMs

SQL Server on Azure Virtual Machines can take advantage of Automated Backup, which regularly creates backups of your database to blob storage. You can also manually use this technique.

Box 2: Active geo-replication

Geo-replication for services such as Azure SQL Database and Cosmos DB will create secondary replicas of your data across multiple regions. While both services will automatically replicate data within the same region, geo-replication protects you against a regional outage by enabling you to fail over to a secondary region.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/virtual-machines/windows/sql-server-on-azure-vm-iaas-what-i> <https://docs.microsoft.com/en-us/dotnet/architecture/cloud-native/infrastructure-resiliency-azure>

NEW QUESTION 29

- (Exam Topic 5)

You have an Azure SQL Database managed instance named SQLMI1. A Microsoft SQL Server Agent job runs on SQLMI1.

You need to ensure that an automatic email notification is sent once the job completes. What should you include in the solution?

- A. From SQL Server Configuration Manager (SSMS), enable SQL Server Agent
- B. From SQL Server Management Studio (SSMS), runsp_set_sqlagent_properties
- C. From SQL Server Management Studio (SSMS), create a Database Mail profile
- D. From the Azure portal, create an Azure Monitor action group that has an Email/SMS/Push/Voice action

Answer: C

Explanation:

To send a notification in response to an alert, you must first configure SQL Server Agent to send mail. Using SQL Server Management Studio; to configure SQL Server Agent to use Database Mail:

- In Object Explorer, expand a SQL Server instance.
- Right-click SQL Server Agent, and then click Properties.
- Click Alert System.
- Select Enable Mail Profile.
- In the Mail system list, select Database Mail.
- In the Mail profile list, select a mail profile for Database Mail.
- Restart SQL Server Agent.

Note: Prerequisites include:

- Enable Database Mail.
- Create a Database Mail account for the SQL Server Agent service account to use.
- Create a Database Mail profile for the SQL Server Agent service account to use and add the user to the DatabaseMailUserRole in the msdb database.
- Set the profile as the default profile for the msdb database. Reference:

<https://docs.microsoft.com/en-us/sql/relational-databases/database-mail/configure-sql-server-agent-mail-to-use-d>

NEW QUESTION 30

- (Exam Topic 5)

You have an Azure Databricks resource.

You need to log actions that relate to changes in compute for the Databricks resource. Which Databricks services should you log?

- A. clusters
- B. jobs
- C. DBFS
- D. SSH
- E. workspace

Answer: E

Explanation:

Cloud Provider Infrastructure Logs.

Databricks logging allows security and admin teams to demonstrate conformance to data governance standards within or from a Databricks workspace.

Customers, especially in the regulated industries, also need records on activities like:

- User access control to cloud data storage
- Cloud Identity and Access Management roles
- User access to cloud network and compute

Azure Databricks offers three distinct workloads on several VM Instances tailored for your data analytics workflow—the Jobs Compute and Jobs Light Compute workloads make it easy for data engineers to build and execute jobs, and the All-Purpose Compute workload makes it easy for data scientists to explore, visualize, manipulate, and share data and insights interactively.

Reference:

<https://databricks.com/blog/2020/03/25/trust-but-verify-with-databricks.html>

NEW QUESTION 34

- (Exam Topic 5)

You have SQL Server on an Azure virtual machine that contains a database named DB1. DB1 is 30 TB and has a 1-GB daily rate of change.

You back up the database by using a Microsoft SQL Server Agent job that runs Transact-SQL commands. You perform a weekly full backup on Sunday, daily differential backups at 01:00, and transaction log backups every five minutes.

The database fails on Wednesday at 10:00.

Which three backups should you restore in sequence? To answer, move the appropriate backups from the list of backups to the answer area and arrange them in the correct order.

Actions

Monday, Tuesday, and then Wednesday differential backups

Wednesday, Tuesday, and then Monday log backups

full backup

Monday, Tuesday, and then Wednesday log backups

Wednesday, Tuesday, and then Monday differential backups

Wednesday log backups

Wednesday differential backup

Answer Area

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Actions

Monday, Tuesday, and then Wednesday differential backups

Wednesday, Tuesday, and then Monday log backups

full backup

Monday, Tuesday, and then Wednesday log backups

Wednesday, Tuesday, and then Monday differential backups

Wednesday log backups

Wednesday differential backup

Answer Area

full backup

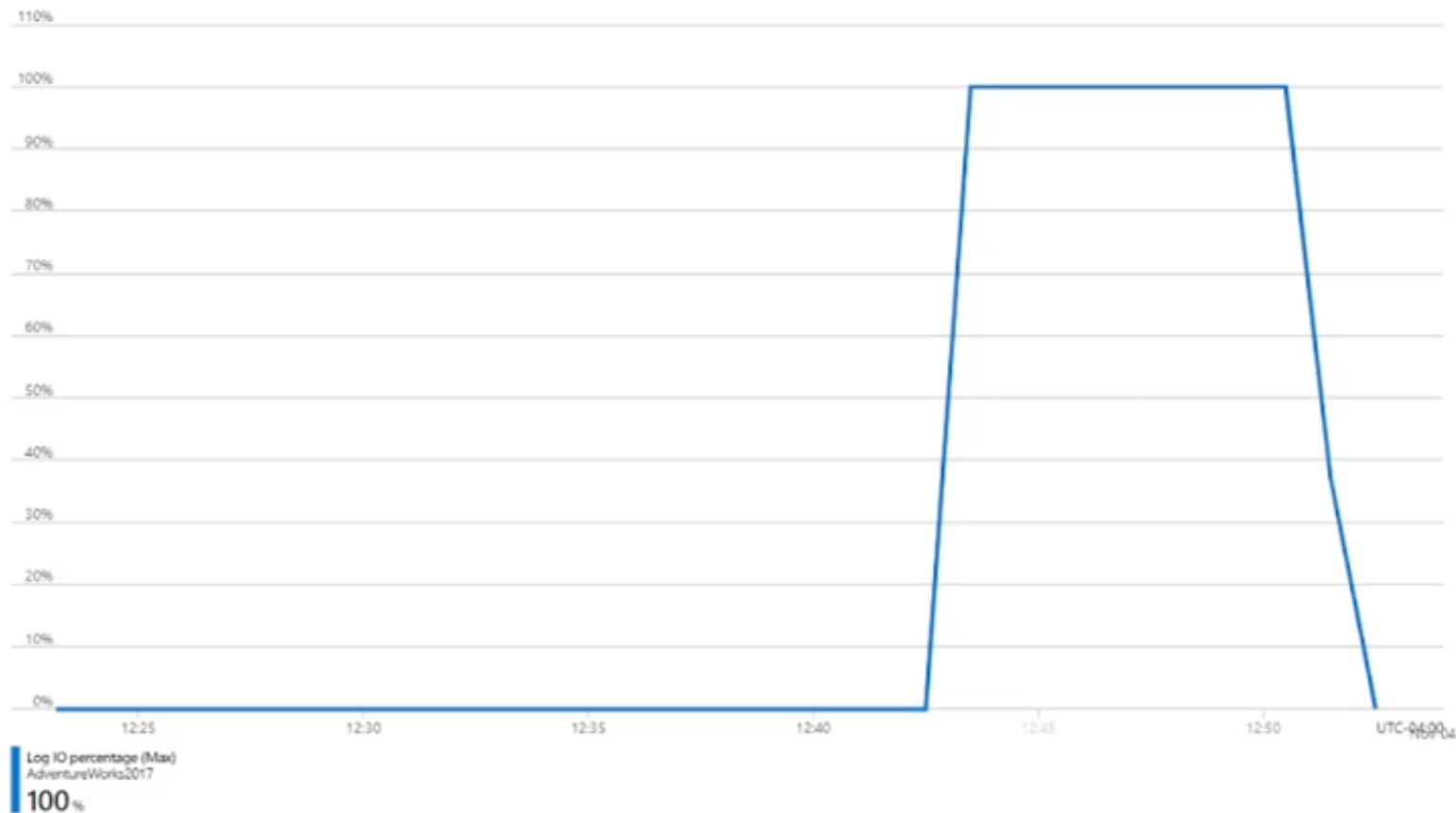
Wednesday differential backup

Wednesday log backups

NEW QUESTION 37

- (Exam Topic 5)

You have an Azure SQL database named DB1 in the General Purpose service tier. The performance metrics for DB1 are shown in the following exhibit.



You need to reduce the Log 10 percentage. The solution must minimize costs. What should you do?

- A. Increase the number of vCores.
- B. Change Recoverymodel to Simple.
- C. Perform a checkpoint operation.
- D. Change Service tier to Business Critical.

Answer: D

NEW QUESTION 40

- (Exam Topic 5)

You plan to perform batch processing in Azure Databricks once daily. Which type of Databricks cluster should you use?

- A. automated
- B. interactive
- C. High Concurrency

Answer: A

Explanation:

Azure Databricks makes a distinction between all-purpose clusters and job clusters. You use all-purpose clusters to analyze data collaboratively using interactive notebooks. You use job clusters to run fast and robust automated jobs.

The Azure Databricks job scheduler creates a job cluster when you run a job on a new job cluster and terminates the cluster when the job is complete.

Reference:

<https://docs.microsoft.com/en-us/azure/databricks/clusters>

NEW QUESTION 45

- (Exam Topic 5)

You manage 100 Azure SQL managed instances located across 10 Azure regions.

You need to receive voice message notifications when a maintenance event affects any of the 10 regions. The solution must minimize administrative effort. What should you do?

- A. From the Azure portal, create a service health alert.
- B. From the Azure portal, create an Azure Advisor operational excellence alert.
- C. From Microsoft SQL Server Management Studio (SSMS), configure a SQL Server agent job.
- D. From the Azure portal, configure an activity log alert.

Answer: C

NEW QUESTION 46

- (Exam Topic 5)

You have an Azure SQL database named DB1.

You have a table named Table1 that has 20 columns of type CHAR(400). Row compression for Table1 is enabled.

During a database audit, you discover that none of the fields contain more than 150 characters. You need to ensure that you can apply page compression to Table1.

What should you do?

- A. Configure the columns as sparse.
- B. Change the column type to NVARCHAR(MAX).
- C. Change the column type to VARCHAR(MAX).
- D. Change the column type to VARCHAR(200).

Answer: D

Explanation:

Reference:

<https://www.sqlshack.com/sql-varchar-data-type-deep-dive/> <https://36chambers.wordpress.com/2020/06/18/nvarchar-everywhere-a-thought-experiment/>

NEW QUESTION 47

- (Exam Topic 5)

You have an Azure SQL managed instance.

You need to restore a database named DB1 by using Transact-SQL.

Which command should you run? To answer, select the appropriate options in the answer area.

NOTE:Each correct selection is worth one point.

RESTORE	<div><div></div><div>DATABASE</div><div>FILE</div><div>LOG</div></div>	DB1	FROM	<div><div></div><div>DISK = N'\\NAS01\SSQLBackups\DB1.bak';</div><div>TAPE = N'\\Tape0'</div><div>URL = N'https://mybackups.blob.core.windows.net/bkups/DB1.bak'</div></div>
---------	------------------------------------------------------------------------	-----	------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Text Description automatically generated

NEW QUESTION 52

- (Exam Topic 5)

You have an Azure subscription that contains an Azure SQL managed instance named SQLMi1 and a SQL Agent job named Backupdb. Backupdb performs a daily backup of the databases hosted on SQLMi1.

You need to be notified by email if the job fails.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

NOTE:More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Actions	Answer Area
Create a SQL Server Agent alert.	
Create an operator.	
Create an extended event.	
Enable Database Mail.	
Add a failure notification to the job.	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Text Description automatically generated

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/managed-instance/job-automation-managed-instance>

NEW QUESTION 53

- (Exam Topic 5)

You have two instances of SQL Server on Azure virtual Machines named VM1 and VM2. VM1 hosts a database named db1.

You plan to create a database availability group (DAG) for db1. The solution must use certificate authentication between VM1 and VM2.

You need to configure authentication for the outbound connections of VM1.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

From the master database, run CREATE_ENDPOINT.

From db1, run CREATE_CERTIFICATE.

From the master database, run CREATE_MASTER_KEY_ENCRYPTION_BY_PASSWORD.

From the master database, run CREATE_CERTIFICATE.

From db1, run CREATE_ENDPOINT.

>

<

Answer Area

^

v

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Actions

From the master database, run CREATE_ENDPOINT.

From db1, run CREATE_CERTIFICATE.

From the master database, run CREATE_MASTER_KEY_ENCRYPTION_BY_PASSWORD.

From the master database, run CREATE_CERTIFICATE.

From db1, run CREATE_ENDPOINT.

>

<

Answer Area

From the master database, run CREATE_MASTER_KEY_ENCRYPTION_BY_PASSWORD.

From the master database, run CREATE_CERTIFICATE.

From db1, run CREATE_ENDPOINT.

^

v

NEW QUESTION 55

- (Exam Topic 5)

You have an Azure subscription that contains a resource group named RG1. RG1 contains an instance of SQL Server on Azure Virtual Machines named SQL. You need to use PowerShell to enable and configure automated patching for SQL. The solution must include both SQL Server and Windows security updates. How should you complete the command? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area

\$AutoPatchingConfig = New-AzVMSqlServerAutoPatchingConfig -Enable

-DayOfWeek "Sunday" -MaintenanceWindowStartingHour 2

-MaintenanceWindowDuration 120 -PatchCategory "Important"

Get-AzVM -ResourceGroupName "RG1" -Name "SQL" |

Set-AzVMExtension

Get-AzVMSQLServerExtension

Set-AzVMExtension

Set-AzVMSqlServerExtension

-AutoPatchingSettings \$AutoPatchingConfig | Update-AzVM

-SQLManagementType

-Lightweight

-Full

-Lightweight

-NoAgent

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

```
$AutoPatchingConfig = New-AzVMSqlServerAutoPatchingConfig -Enable
-DayOfWeek "Sunday" -MaintenanceWindowStartingHour 2
-MaintenanceWindowDuration 120 -PatchCategory "Important"
```

Get-AzVM -ResourceGroupName "RG1" -Name "SQ1" |

Set-AzVMExtension

Get-AzVMSQLServerExtension

Set-AzVMExtension

Set-AzVMSqlServerExtension

```
-AutoPatchingSettings $AutoPatchingConfig | Update-AzVM
```

-SQLManagementType

-Lightweight

-Full

-Lightweight

-NoAgent

NEW QUESTION 56

- (Exam Topic 5)

You have a single availability set that contains two SQL Server on Azure Virtual Machines instances. The instances were deployed by using an Azure Marketplace SQL Server 2019 Enterprise image that has the latest cumulative updates applied. The instances are configured as the nodes of a failover cluster instance (FCI) named FCI1. You need to ensure that client applications can connect to FCI1. The solution must meet the following requirements:

- Provide an availability SLA
- Minimize costs.

What should you create?

- A. a virtual network name (VNN) resource
- B. a Basic Azure Load Balancer
- C. a distributed network name (DNN) resource
- D. an Azure Standard Load Balancer

Answer: C

NEW QUESTION 61

- (Exam Topic 5)

You create a new Azure SQL managed instance named SQL1 and enable Database Mail extended stored You need to ensure that SQ Server Agent jobs running on SQL 1 can notify when a failure Occurs Which three actions should you perform in sequence 7 TO answer. move the appropriate actions from the list Of actions to answer area and arrange them in correct order.

Actions

Create a Database Mail account.

Enable pager notifications upon failure.

Create a profile named AzureManagedInstance_dbmail_profile.

Enable email notifications upon failure.

Create a profile named application_dbmail_profile.

>

<

Answer Area

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Actions

Create a Database Mail account.

Enable pager notifications upon failure.

Create a profile named AzureManagedInstance_dbmail_profile.

Enable email notifications upon failure.

Create a profile named application_dbmail_profile.

>

<

Answer Area

Create a Database Mail account.

Create a profile named AzureManagedInstance_dbmail_profile.

Enable email notifications upon failure.

NEW QUESTION 66

- (Exam Topic 5)

You have An Azure SQL managed instance.

You need to configure the SQL Server Agent service to email job notifications. Which statement should you execute?

A)

```
EXECUTE msdb.dbo.sysmail_add_profile_sp @profile_name = 'sysadmin_dbmail_profile';
```

B)

```
EXECUTE msdb.dbo.sysmail_add_profile_sp @profile_name = 'application_dbmail_profile';
```

C)

```
EXECUTE msdb.dbo.sysmail_add_profile_sp @profile_name = 'AzureManagedInstance_dbmail_profile';
```

D)

```
EXECUTE msdb.dbo.sysmail_add_profile_sp @profile_name = 'sys_dbmail_profile';
```

A. Option A

B. Option B

C. Option C

D. Option D

Answer: B

NEW QUESTION 68

- (Exam Topic 5)

You have SQL Server on an Azure virtual machine that contains a database named Db1. You need to enable automatic tuning for Db1.

How should you complete the statements? To answer, select the appropriate answer in the answer area.

NOTE:Each correct selection is worth one point.

ALTER DATABASE [Db1]

SET AUTOMATIC_TUNING (FORCE_LAST_GOOD_PLAN=OFF) SET AUTOMATIC_TUNING (FORCE_LAST_GOOD_PLAN=ON) SET AUTOMATIC_TUNING=AUTO SET QUERY_STORE=OFF SET QUERY_STORE=ON(OPERATION_MODE=READ_ONLY) SET QUERY_STORE=ON(OPERATION_MODE=READ_WRITE)

GO

ALTER DATABASE [Db1]

SET AUTOMATIC_TUNING (FORCE_LAST_GOOD_PLAN=OFF) SET AUTOMATIC_TUNING (FORCE_LAST_GOOD_PLAN=ON) SET AUTOMATIC_TUNING=AUTO SET QUERY_STORE=OFF SET QUERY_STORE=ON(OPERATION_MODE=READ_ONLY) SET QUERY_STORE=ON(OPERATION_MODE=READ_WRITE)

GO

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Box 1: SET AUTOMATIC_TUNING = AUTO

To enable automatic tuning on a single database via T-SQL, connect to the database and execute the following query:

ALTER DATABASE current SET AUTOMATIC_TUNING = AUTO

Setting automatic tuning to AUTO will apply Azure Defaults.

Box 2: SET AUTOMATIC_TUNING (FORCE_LAST_GOOD_PLAN = ON)

To configure individual automatic tuning options via T-SQL, connect to the database and execute the query such as this one:

ALTER DATABASE current SET AUTOMATIC_TUNING (FORCE_LAST_GOOD_PLAN = ON)

Setting the individual tuning option to ON will override any setting that database inherited and enable the tuning option. Setting it to OFF will also override any setting that database inherited and disable the tuning option.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/automatic-tuning-enable>

NEW QUESTION 71

- (Exam Topic 5)

You have an Azure subscription that contains a SQL Server on Azure Virtual Machines instance named SQLVMI. SQLVMI hosts a database named OBI. You need to retrieve query plans from the Query Store on DBI. What should you do first?

- A. On SQLVM1, install the SQL Server IaaS Agent extension.
- B. From Microsoft SQL Server Management Studio, modify the properties of the SQL Server instance.
- C. From Microsoft SQL Server Management Studio, modify the properties of DB 1.
- D. On SQLVM1, install the Azure Monitor agent for Windows.

Answer: B

NEW QUESTION 75

- (Exam Topic 5)

You have an Azure subscription that contains a storage account named databasebackups. You have an Azure SQL managed instance named DB1.

You need to back up DB1 to databasebackups.

How should you complete the commands? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area



```
CREATE CREDENTIAL
[https://databasebackups.blob.core.windows.net/Backups]
WITH IDENTITY = 'SHARED ACCESS SIGNATURE'
SECRET = 'sp=r&st=2023-02-02T19:23:08Z&se=2033-02-02T19:30:08Z&spr=https&sv=2021-06-08&sr=b&sig=B%2FxEYQi0C%4BqyYCeqlwHSz2QpRI%2FKcg3ZABz78J2kix3JZjk%3D'
BACKUP DATABASE DB1
TO URL =
'https://databasebackups.blob.core.windows.net/Backups/db1.bak'
WITH
```

The screenshot shows a SQL Server Management Studio interface with a T-SQL script editor. The script is for creating a credential and backing up a database. The 'WITH IDENTITY' dropdown is set to 'SHARED ACCESS SIGNATURE'. The 'SECRET' is a long string representing a Shared Access Signature. The 'BACKUP DATABASE' command is followed by 'TO URL ='. The 'WITH' dropdown is set to 'COPY_ONLY'.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

```
CREATE CREDENTIAL
[https://databasebackups.blob.core.windows.net/Backups]
WITH IDENTITY = 'DatabaseBackups'
SECRET = 'sp=r&st=2023-02-02T19:23:08Z&se=2033-02-02T19:30:08Z&spr=https&sv=2021-06-08&sr=b&sig=B%2FxEYQiOC%4BqyYCeqlwHSz2QpRI%2FKcg3ZABz78J2kix3JZjk%3D'
BACKUP DATABASE DB1
TO URL = 'https://databasebackups.blob.core.windows.net/Backups/db1.bak'
WITH COPY_ONLY
```

NEW QUESTION 76

- (Exam Topic 5)

You have an Azure subscription that contains an Azure Data Factory version 2 (V2) data factory named df1. DF1 contains a linked service. You have an Azure Key vault named vault1 that contains an encryption key named key1. You need to encrypt df1 by using key1. What should you do first?

- A. Disable purge protection on vault1.
- B. Remove the linked service from df1.
- C. Create a self-hosted integration runtime.
- D. Disable soft delete on vault1.

Answer: B

Explanation:

A customer-managed key can only be configured on an empty data Factory. The data factory can't contain any resources such as linked services, pipelines and data flows. It is recommended to enable customer-managed key right after factory creation.

Note: Azure Data Factory encrypts data at rest, including entity definitions and any data cached while runs are in progress. By default, data is encrypted with a randomly generated Microsoft-managed key that is uniquely assigned to your data factory.

Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/enable-customer-managed-key>

NEW QUESTION 77

- (Exam Topic 5)

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: You restore Database1 from Server1 to the Server2 by using the RESTORE Transact-SQL command and the REPLACE option.

Does this meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

The REPLACE option overrides several important safety checks that restore normally performs. The overridden checks are as follows:

➤ Restoring over an existing database with a backup taken of another database.

With the REPLACE option, restore allows you to overwrite an existing database with whatever database is in the backup set, even if the specified database name differs from the database name recorded in the backup set. This can result in accidentally overwriting a database by a different database.

Reference:

<https://docs.microsoft.com/en-us/sql/t-sql/statements/restore-statements-transact-sql>

NEW QUESTION 80

- (Exam Topic 5)

You have an Azure subscription that contains the resources shown in the following table.

Name	Type
App1	Azure web app
db1	Azure SQL database in the serverless tier

App1 experiences transient connection errors and timeouts when it attempts to access db1 after extended periods of inactivity. You need to modify db1 to resolve the issues experienced by App1 as soon as possible, without considering immediate costs. What should you do?

- A. Increase the number Of vCores allocated to db1.
- B. Disable auto-pause delay for db1.
- C. Decrease the auto-pause delay for db1.
- D. Enable automatic tuning for db1.

Answer: D

NEW QUESTION 83

- (Exam Topic 5)

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 an Azure Synapse Analytics dedicated SQL pool that contains a table named Table1. You have files that are ingested and loaded into an Azure Data Lake Storage Gen2 container named container1.

You plan to insert data from the files into Table1 and transform the data. Each row of data in the files will produce one row in the serving layer of Table1.

You need to ensure that when the source data files are loaded to container1, the DateTime is stored as an additional column in Table1.

Solution: You use an Azure Synapse Analytics serverless SQL pool to create an external table that has an additional DateTime column.

Does this meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

In dedicated SQL pools you can only use Parquet native external tables. Native external tables are generally available in serverless SQL pools.

Reference:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/create-use-external-tables>

NEW QUESTION 85

- (Exam Topic 5)

You have the following Azure Data Factory pipelines:

- > Ingest Data from System1
- > Ingest Data from System2
- > Populate Dimensions
- > 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.

Answer: D

Explanation:

Reference:

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

NEW QUESTION 89

- (Exam Topic 5)

You have SQL Server 2019 on an Azure virtual machine that contains an SSISDB database. A recent failure causes the master database to be lost.

You discover that all Microsoft SQL Server integration Services (SSIS) packages fail to run on the virtual machine.

Which four actions should you perform in sequence to resolve the issue? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct.

Actions	Answer Area
Add a certificate to an Azure key vault	
Enable Transparent Data Encryption (TDE)	
Encrypt a copy of the master key by using the service master key	<div> <div>></div> <div><</div> </div> <div> <div>↑</div> <div>↓</div> </div>
Turn on the TRUSTWORTHY property and the CLR property	
Attach the SSISDB database	
Open the master key for the SSISDB database	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: Attach the SSISDB database

Step 2: Turn on the TRUSTWORTHY property and the CLR property

If you are restoring the SSISDB database to an SQL Server instance where the SSISDB catalog was never created, enable common language runtime (clr)

Step 3: Open the master key for the SSISDB database

Restore the master key by this method if you have the original password that was used to create SSISDB.

open master key decryption by password = 'LS1Setup!' --'Password used when creating SSISDB' Alter Master Key Add encryption by Service Master Key

Step 4: Encrypt a copy of the mater key by using the service master key Reference:

<https://docs.microsoft.com/en-us/sql/integration-services/backup-restore-and-move-the-ssis-catalog>

NEW QUESTION 93

- (Exam Topic 5)

You have a new Azure subscription.

You create an Azure SQL Database instance named DB1 on an Azure SQL Database server named Server1. You need to ensure that users can connect to DB1 in the event of an Azure regional outage. In the event of an outage, applications that connect to DB1 must be able to connect without having to update the connection strings.

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

NOTE:Each correct selection is worth one point.

- A. From the properties of DB1. configure geo-replication.
- B. From the properties of Server1 add a failover group.
- C. Create a new Azure SQL Database server named Server2.
- D. From the properties of Server1 configure retention for DB1
- E. Create a new Azure SQL Database instance named DB2.

Answer: BC

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/auto-failover-group-overview?tabs=azure-powershell> <https://docs.microsoft.com/en-us/azure/azure-sql/database/failover-group-add-single-database-tutorial?tabs=azur>

NEW QUESTION 95

- (Exam Topic 5)

You have an Azure subscription that contains an Azure SQL database named SQL1. SQL1 is in an Azure region that does not support availability zones.

You need to ensure that you have a secondary replica of SQL1 in the same region. What should you use?

- A. log shipping
- B. auto-failover groups
- C. active geo-replication
- D. Microsoft SQL Server failover clusters

Answer: C

NEW QUESTION 97

- (Exam Topic 5)

You have an Azure SQL Database managed instance named sqldbmi1 that contains a database name Sales. You need to initiate a backup of Sales.

How should you complete the Transact-SQL statement? To answer, select the appropriate options in the answer area.

NOTE:Each correct selection is worth one point.

BACKUP DATABASE Sales

	▼
TO DISK = \\BackupSystem\BackupDisk1\Sales.bak'	
TO DISK = 'X:\BAK\Sales.bak'	
TO 'Sales_Backup'	
TO URL = 'https://storage1.blob.core.windows.net/blob1/Sales.bak'	

WITH STATS = 5,

	▼
WITH COPY_ONLY;	
WITH ENCRYPTION;	
WITH FILE_SNAPSHOT;	
WITH NO_TRUNCATE	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: TO URL = 'https://storage1.blob.core.windows.net/blob1/Sales.bak' Native database backup in Azure SQL Managed Instance. You can backup any database using standard BACKUP T-SQL command: BACKUP DATABASE tpcc2501 TO URL = 'https://myacc.blob.core.windows.net/testcontainer/tpcc2501.bak' WITH COPY_ONLY
 Box 2: WITH COPY_ONLY
 Reference:
<https://techcommunity.microsoft.com/t5/azure-sql-database/native-database-backup-in-azure-sql-managed-insta>

NEW QUESTION 99

- (Exam Topic 5)
 You have 20 Azure SQL databases provisioned by using the vCore purchasing model. You plan to create an Azure SQL Database elastic pool and add the 20 databases.
 Which three metrics should you use to size the elastic pool to meet the demands of your workload? Each correct answer presents part of the solution.
 NOTE:Each correct selection is worth one point.

- A. total size of all the databases
- B. geo-replication support
- C. number of concurrently peaking databases * peak CPU utilization per database
- D. maximum number of concurrent sessions for all the databases
- E. total number of databases * average CPU utilization per database

Answer: ACE

Explanation:

CE: Estimate the vCores needed for the pool as follows:
 For vCore-based purchasing model: MAX(<Total number of DBs X average vCore utilization per DB>, <Number of concurrently peaking DBs X Peak vCore utilization per DB>
 A: Estimate the storage space needed for the pool by adding the number of bytes needed for all the databases in the pool.
 Reference:
<https://docs.microsoft.com/en-us/azure/azure-sql/database/elastic-pool-overview>

NEW QUESTION 100

- (Exam Topic 5)
 You have an Azure subscription.
 You need to deploy a logical SQL server by using PowerShell. The solution must ensure that the logical SQL server can create Azure AD users and provide Transparent Data Encryption (TDE) with a customer-managed key.
 How should you complete the command? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area

```
New-AzSqlServer -ResourceGroupName "RG1" -ServerName "SQL1" -Location "EastUS" -ErrorAction Stop
-Tags @{Environment="Databases";Department="Data Tech"}
-assignidentity
-federatedclientID
-keyid
-assignidentity
-federatedclientID
-keyid
"https://db1.vault.azure.net/keys/dbkey/01234234512345678901234561823942"
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

"Assigned Identity" and "Key id"
<https://learn.microsoft.com/en-us/powershell/module/az.sql/new-azsqlserver?view=azps-10.2.0#code-try-3>

NEW QUESTION 101

- (Exam Topic 5)
You have an Azure subscription that is linked to a hybrid Azure Active Directory (Azure AD) tenant. The subscription contains an Azure Synapse Analytics SQL pool named Pool1.
You need to recommend an authentication solution for Pool1. The solution must support multi-factor authentication (MFA) and database-level authentication.
Which authentication solution or solutions should you include in the recommendation? To answer, select the appropriate options in the answer area.
NOTE:Each correct selection is worth one point.

MFA:

Azure AD authentication
Microsoft SQL Server authentication
Passwordless authentication
Windows authentication

Database-level authentication:

Application roles
Contained database users
Database roles
Microsoft SQL Server logins

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application, chat or text message Description automatically generated
Box 1: Azure AD authentication
Azure Active Directory authentication supports Multi-Factor authentication through Active Directory Universal Authentication.
Box 2: Contained database users
Azure Active Directory Uses contained database users to authenticate identities at the database level. Reference:
<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-authentication>

NEW QUESTION 102

- (Exam Topic 5)
You have SQL Server on an Azure virtual machine.
You need to use Policy-Based Management in Microsoft SQL Server to identify stored procedures that do not comply with your naming conventions.
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

Export a built-in policy.

Create a custom policy based on a condition.

Create a custom condition based on a built-in facet.

View the policy history.

Import a policy file.

Run a policy evaluation.

Answer Area

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Text Description automatically generated

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Reference:

<https://www.mssqltips.com/sqlservertip/2298/enforce-sql-server-database-naming-conventions-using-policy-bas>

NEW QUESTION 104

- (Exam Topic 5)

You have an Azure Stream Analytics job.

You need to ensure that the job has enough streaming units provisioned. You configure monitoring of the SU % Utilization metric.

Which two additional metrics should you monitor? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Late Input Events
- B. Out of order Events
- C. Backlogged Input Events
- D. Watermark Delay
- E. Function Events

Answer: CD

Explanation:

To react to increased workloads and increase streaming units, consider setting an alert of 80% on the SU Utilization metric. Also, you can use watermark delay and backlogged events metrics to see if there is an impact.

Note: Backlogged Input Events: Number of input events that are backlogged. A non-zero value for this metric implies that your job isn't able to keep up with the number of incoming events. If this value is slowly increasing or consistently non-zero, you should scale out your job, by increasing the SUs.

Reference:

<https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-monitoring>

NEW QUESTION 106

- (Exam Topic 5)

You have an Azure SQL managed instance.

You need to enable SQL Agent Job email notifications. What should you do?

- A. Use the Agent XPs option.
- B. Enable the SQL Server Agent.
- C. Run the sp_configure command.
- D. Run the sp_set_agent_properties command.

Answer: C

NEW QUESTION 111

- (Exam Topic 5)

You have an Azure subscription.

You need to deploy two instances of SQL Server on Azure virtual machines in a highly available configuration that will use an Always On availability group. The solution must meet the following requirements:

- Minimize how long it takes to fail over.
- Maintain existing connections to the primary replica during a failover. What should you do?

- A. Connect each virtual machine to a single subnet on a single virtual network.
- B. Connect each virtual machine to a single subnet on a virtual network
- C. Deploy a standard Azure load balancer.
- D. Connect each virtual machine to a different subnet on a single virtual network.
- E. Connect each virtual machine to a different subnet on a virtual network
- F. Deploy a basic Azure load balancer.

Answer: C

NEW QUESTION 113

- (Exam Topic 5)

You have an Azure virtual machine named VM1 on a virtual network named VNet1. Outbound traffic from VM1 to the internet is blocked.

You have an Azure SQL database named SqlDb1 on a logical server named SqlSrv1.

You need to implement connectivity between VM1 and SqlDb1 to meet the following requirements:

- Ensure that all traffic to the public endpoint of SqlSrv1 is blocked.
- Minimize the possibility of VM1 exfiltrating data stored in SqlDb1. What should you create on VNet1?

- A. a VPN gateway
- B. a service endpoint
- C. a private link
- D. an ExpressRoute gateway

Answer: C

Explanation:

Azure Private Link enables you to access Azure PaaS Services (for example, Azure Storage and SQL Database) and Azure hosted customer-owned/partner services over a private endpoint in your virtual network.

Traffic between your virtual network and the service travels the Microsoft backbone network. Exposing your service to the public internet is no longer necessary.

Reference:

<https://docs.microsoft.com/en-us/azure/private-link/private-link-overview>

NEW QUESTION 116

- (Exam Topic 5)

You have an Azure subscription that contains the resources shown in the following table.

Name	Type	Azure region
VM1	Azure virtual machine	West US 2
MI1	Azure SQL Managed Instance	East US

You need to configure a connection between VM1 and MI1. The solution must meet the following requirements:

- The connection must be encrypted.
- Network latency must be minimized. What should you implement?

- A. virtual network peering
- B. private endpoints
- C. service endpoints
- D. a site-to-site VPN

Answer: B

NEW QUESTION 117

- (Exam Topic 5)

You have a SQL Server on Azure Virtual Machines instance named SQLVM1 that was deployed by using an Azure Marketplace SQL Server 2019 Enterprise image.

You need to change the Microsoft SQL Server instance on SQLVM1 to the Standard edition. The solution must ensure licensing compliance.

What should you do first?

- A. From the SQL Server Installation Center on SQLVM1, run the Edition Upgrade wizard.
- B. From SQLVM1, uninstall the SQL Server instance.
- C. From the SQL Server Installation Center on SQLVM1, run the Repair wizard.
- D. From the Azure portal, reconfigure SQLVM1.

Answer: B

NEW QUESTION 122

- (Exam Topic 5)

You are designing a streaming data solution that will ingest variable volumes of data. You need to ensure that you can change the partition count after creation.

Which service should you use to ingest the data?

- A. Azure Event Hubs Standard
- B. Azure Stream Analytics
- C. Azure Data Factory
- D. Azure Event Hubs Dedicated

Answer: D

Explanation:

The partition count for an event hub in a dedicated Event Hubs cluster can be increased after the event hub has been created.

Reference:

<https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-features#partitions>

NEW QUESTION 124

- (Exam Topic 5)

You have an on-premises Microsoft SQL server that uses the FileTables and FileStream features. You plan to migrate to Azure SQL.

Which service should you use?

- A. Azure SQL Database
- B. SQL Server on an Azure Virtual Machine
- C. Azure SQL Managed Instance
- D. Azure Database for MySQL

Answer: B

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/migration-guides/database/sql-server-to-sql-database-overview>

NEW QUESTION 125

- (Exam Topic 5)

You have an Azure subscription that contains a logical SQL server named Server1. The master database of Server1 contains a user named User1. You need to ensure that User1 can create databases on Server1. Which database role should you assign to User1?

- A. db_owner
- B. dbmanager
- C. dbo
- D. db_ddladmin

Answer: B

NEW QUESTION 126

- (Exam Topic 5)
You have an Azure SQL managed instance named MI1.
You need to implement automatic tuning for the databases of MI1. What should you do?

- A. Use the REST API to call the patch operation and modify the AutomaticTuningServerMode property.
- B. Use Transact-SQL to enable the force_last_good_plan option.
- C. From the Azure portal, configure automatic tuning.

Answer: B

NEW QUESTION 128

- (Exam Topic 5)
You have a SQL Server on Azure Virtual Machines instance named VM1 . You run the following query.

```
BACKUP LOG DB1 TO DISK = '\\File1\SQLBackups\DB1.trn'
WITH NORECOVERY,COPY_ONLY,CONTINUE_AFTER_ERROR;
GO
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

Statements	Yes	No
The log file will be truncated.	<input type="radio"/>	<input type="radio"/>
DB1 will be placed in an offline state.	<input type="radio"/>	<input type="radio"/>
You are performing a tail-log backup.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
The log file will be truncated.	<input checked="" type="radio"/>	<input type="radio"/>
DB1 will be placed in an offline state.	<input type="radio"/>	<input checked="" type="radio"/>
You are performing a tail-log backup.	<input type="radio"/>	<input checked="" type="radio"/>

NEW QUESTION 129

- (Exam Topic 5)
You configure backups for an Azure SQL database as shown in the following exhibit.

Point-in-time-restore

Specify how long you want to keep your point-in-time backups. [Learn more](#)

How many days would you like PITR backups to be kept? ⓘ



Long-term retention

Specify how long you want to keep your long-term retention backups. You may choose to keep yearly backups for up to 10 years. [Learn more](#)

Weekly LTR Backups

Keep weekly backups for:

Monthly LTR Backups

Keep the first backup of each month for:

Yearly LTR Backups

Keep an annual backup for:

Which weekly backup of the year would you like to keep?

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.
 NOTE: Each correct selection is worth one point.

Answer Area

To restore from a failure that occurred two days ago and caused minimal data loss, you must use a [answer choice]

- point-time restore (PITR) backup.
- yearly long-term retention (LTR) backup.
- weekly long-term retention (LTR) backup.
- monthly long-term retention (LTR) backup.

After the 52nd weekly backup runs, there will be [answer choice] in long term retention.

- 1 backup copy
- 52 backup copies
- 64 backup copies
- 65 backup copies

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

To restore from a failure that occurred two days ago and caused minimal data loss, you must use a [answer choice]

- point-time restore (PITR) backup.
- yearly long-term retention (LTR) backup.
- weekly long-term retention (LTR) backup.
- monthly long-term retention (LTR) backup.

After the 52nd weekly backup runs, there will be [answer choice] in long term retention.

- 1 backup copy
- 52 backup copies
- 64 backup copies
- 65 backup copies

NEW QUESTION 133

- (Exam Topic 5)
You have a database named db1.
The log for db1 contains the following entry.

```
Date 10/5/2021 10:57:08 AM
Log SQL Server (Current - 10/5/2021 11:26:00 AM)

Source spid1595

Message
The transaction log for database 'db1' is full due to 'AVAILABILITY_REPLICA'
```

You need to ensure That db1 can process transactions.

Actions

Add db1 back to the availability group.

Shrink db1.

Shrink the transaction log file.

Remove db1 from the availability group.

Back up the transaction log file.

Answer Area

>

<

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Actions

Add db1 back to the availability group.

Shrink db1.

Shrink the transaction log file.

Remove db1 from the availability group.

Back up the transaction log file.

Answer Area

Remove db1 from the availability group.

Shrink the transaction log file.

Add db1 back to the availability group.

NEW QUESTION 135

- (Exam Topic 5)
Your on-premises network contains a server that hosts a 60-TB database named DB 1. The network has a 10-Mbps internet connection.
You need to migrate DB 1 to Azure. The solution must minimize how long it takes to migrate the database. What should you use?

- A. Azure Migrate
- B. Data Migration Assistant (DMA)
- C. Azure Data BOX
- D. Azure Database Migration Service

Answer: C

Explanation:

<https://www.techtarget.com/searchitoperations/tip/Easily-transfer-VMs-to-the-cloud-with-Microsoft-Azure-Mig>

NEW QUESTION 138

- (Exam Topic 5)
You have an Azure subscription that contains the resources shown in the following table.

Name	Type	Configuration
DB1	Azure SQL Database	Hyperscale service tier No secondary replicas
App1	Azure Web Apps	App1 has read-only access to DB1. There are multiple instances of App1.

You need to create a read-only replica of DB1 and configure the App1 instances to use the replica. What should you do? To answer, select the appropriate options in the answer area.

NOTE:Each correct selection is worth one point.

Answer Area

To add read-only replicas of DB1:

▼

Create a replica on the same logical server.
Create a new logical server and configure geo-replication.
Create a new logical server and configure an auto-failover group.

To configure App1 instances to access the read-only replica:

▼

Add an ApplicationIntent entry to the connection string.
Add a MultiSubnetFailover entry to the App1 connection string.
Create a dedicated endpoint and configure the App1 connection string to point to the endpoint.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Text Description automatically generated

Reference:

<https://sqlserverguides.com/read-only-replica-azure-sql/>

NEW QUESTION 139

- (Exam Topic 5)

A data engineer creates a table to store employee information for a new application. All employee names are in the US English alphabet. All addresses are locations in the United States. The data engineer uses the following statement to create the table.

```
CREATE TABLE dbo.Employee
(
    EmployeeID INT IDENTITY(1,1) PRIMARY KEY CLUSTERED NOT NULL,
    FirstName VARCHAR(100) NOT NULL,
    LastName VARCHAR(100) NOT NULL,
    Title VARCHAR(100) NULL,
    LastHireDate DATETIME NULL,
    StreetAddress1 VARCHAR(500) NOT NULL,
    StreetAddress2 VARCHAR(500) NOT NULL,
    StreetAddress3 VARCHAR(500) NOT NULL,
    City VARCHAR(200) NOT NULL,
    StateName VARCHAR(20) NOT NULL,
    Salary VARCHAR(20) NULL,
    PhoneNumber VARCHAR(20) NOT NULL
)
```

You need to recommend changes to the data types to reduce storage and improve performance. Which two actions should you recommend? Each correct answer presents part of the solution.

NOTE:Each correct selection is worth one point.

- A. ChangeSalaryto themoneydata type.
- B. ChangePhoneNumbertothefloatdata type.
- C. ChangeLastHireDateto thedatetime2(7)data type.
- D. ChangePhoneNumbertothebigintdata type.
- E. ChangeLastHireDateto thedatedata type.

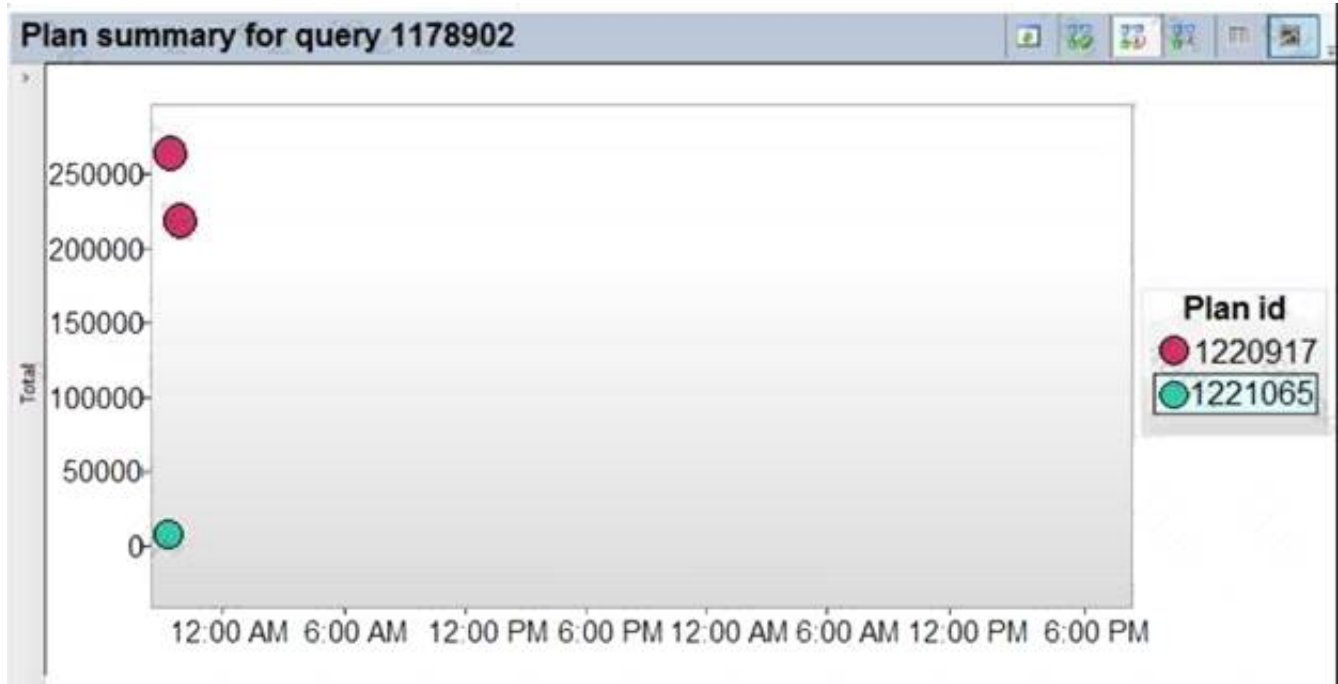
Answer: AE

NEW QUESTION 143

- (Exam Topic 5)

You have SQL Server on an Azure virtual machine that contains a database named DB1.

You view a plan summary that showsthe durationin milliseconds of each execution of query 1178902 as shown in the following exhibit:



What should you do to ensure that the query uses the execution plan which executes in the least amount of time?

- A. Force the query execution plan for plan 1221065.
- B. Run theDBCC FREEPROCCACHEcommand.
- C. Force the query execution plan for plan 1220917.
- D. Disable parameter sniffing.

Answer: C

Explanation:

Reference:

<https://docs.microsoft.com/en-us/sql/relational-databases/performance/query-store-usage-scenarios>

NEW QUESTION 147

- (Exam Topic 5)

You have an Azure subscription that contains an Azure SQL managed instance, a database named db1, and an Azure web app named Appl. Appl uses db1. You need to enable Resource Governor for a App1. The solution must meet the following requirements: App1 must be able to consume all available CPU resources.

App1 must have at least half of the available CPU resources always available.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Actions

- Create a plan.
- Create a classifier function in db1.
- Create a workload group.
- Create a classifier function in the master database.
- Create a resource pool that has the following configurations.
MAX_CPU_PERCENT = 100
MIN_CPU_PERCENT = 50

Answer Area

1

2

3

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Actions

- Create a plan.
- Create a classifier function in db1.
- Create a workload group.
- Create a classifier function in the master database.
- Create a resource pool that has the following configurations.
MAX_CPU_PERCENT = 100
MIN_CPU_PERCENT = 50

Answer Area

1 Create a resource pool that has the following configurations.
MAX_CPU_PERCENT = 100
MIN_CPU_PERCENT = 50

2 Create a workload group.

3 Create a classifier function in the master database.

NEW QUESTION 152

- (Exam Topic 5)

You receive numerous alerts from Azure Monitor for an Azure SQL database.

You need to reduce the number of alerts. You must only receive alerts if there is a significant change in usage patterns for an extended period.

Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Set Threshold Sensitivity to High
- B. Set the Alert logic threshold to Dynamic
- C. Set the Alert logic threshold to Static
- D. Set Threshold Sensitivity to Low
- E. Set Force Plan to On

Answer: BD

Explanation:

B: Dynamic Thresholds continuously learns the data of the metric series and tries to model it using a set of algorithms and methods. It detects patterns in the data such as seasonality (Hourly / Daily / Weekly), and is able to handle noisy metrics (such as machine CPU or memory) as well as metrics with low dispersion (such as availability and error rate).

D: Alert threshold sensitivity is a high-level concept that controls the amount of deviation from metric behavior required to trigger an alert.

Low – The thresholds will be loose with more distance from metric series pattern. An alert rule will only trigger on large deviations, resulting in fewer alerts.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/alerts-dynamic-thresholds>

NEW QUESTION 154

- (Exam Topic 5)

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 Microsoft SQL Server Management Studio (SSMS), you rename Database1 on Server2 as Database2. From the Azure portal, you create a new database on Server2 by restoring the backup of Database1 from Server1, and then you delete Database2.

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 159

- (Exam Topic 5)

You have an Azure subscription that contains the resources shown in the following table.

Name	Type
App1	Azure web app
db1	Azure SQL database in the serverless tier

App1 experiences transient connection errors and timeouts when it attempts to access db1 after extended periods of inactivity.

You need to modify db1 to resolve the issues experienced by App1 as soon as possible, without considering immediate costs

What you do?

- A. Increase the number of vCores allocated to db1.
- B. Decrease the auto-pause delay for db1.
- C. Disable auto-pause delay for db1.
- D. Enable automatic tuning for db1.

Answer: D

NEW QUESTION 160

- (Exam Topic 5)

You have an Azure virtual machine named VM1 that runs Windows Server 2022 and hosts a Microsoft SQL Server 2019 instance named SQL1. You need to configure SQL! to use mixed mode authentication. Which procedure should you run?

- A. sp_addremotelogin
- B. xp_instance_regwrite
- C. sp_cnarge_users_login
- D. xp_grant_login

Answer: B

NEW QUESTION 164

- (Exam Topic 5)

You have SQL Server on Azure virtual machines in an availability group. You have a database named DB1 that isNOTin 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

Answer: B

Explanation:

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>

NEW QUESTION 166

- (Exam Topic 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

Answer: D

Explanation:

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

NEW QUESTION 168

- (Exam Topic 5) You have an Azure SQL database. You identify a long running query.

You need to identify which operation in the query is causing the performance issue.

What should you use to display the query execution plan in Microsoft SQL Server Management Studio (SSMS)?

- A. Live Query Statistics
- B. an estimated execution plan
- C. an actual execution plan
- D. Client Statistics

Answer: A

Explanation:

<https://www.mssqltips.com/sqlservertip/3685/live-query-statistics-in-sql-server-2016/>

NEW QUESTION 170

- (Exam Topic 5)

You create five Azure SQL Database instances on the same logical server.

In each database, you create a user for an Azure Active Directory (Azure AD) user named User1. User1 attempts to connect to the logical server by using Azure Data Studio and receives a login error.

You need to ensure that when User1 connects to the logical server by using Azure Data Studio, User1 can see all the databases.

What should you do?

- A. Create User1 in the master database.
- B. Assign User1 the db_datareader role for the master database.
- C. Assign User1 the db_datareader role for the databases that User1 creates.
- D. Grantselecton sys.databases to public in the master database.

Answer: A

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/logins-create-manage>

NEW QUESTION 174

- (Exam Topic 5)

You are performing exploratory analysis of bus fare data in an Azure Data Lake Storage Gen2 account by using an Azure Synapse Analytics serverless SQL pool.

You execute the Transact-SQL query shown in the following exhibit.


```
SELECT
    payment_type,
    SUM(fare_amount) AS fare_total
FROM OPENROWSET(
    BULK 'csv/busfare/tripdata_2020*.csv',
    DATA_SOURCE = 'BusData',
    FORMAT = 'CSV', PARSER_VERSION = '2.0',
    FIRSTROW = 2
)
WITH (
    payment_type INT 10,
    fare_amount FLOAT 11
) AS nyc
GROUP BY payment_type
ORDER BY payment_type;
```

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

The query results include only [answer choice] in the csv/busfare folder.

CSV files in the tripdata_2020 subfolder
files that have files names beginning with "tripdata_2020"
CSV files that have file names containing "tripdata_202"
CSV files that have file named beginning with "tripdata_2020"

The query assumes that the first row in a CSV file is [answer choice] row.

a header
a data
an empty

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:
Graphical user interface, table Description automatically generated
Box 1: CSV files that have file named beginning with "tripdata_2020" Box 2: a header
FIRSTROW = 'first_row'
Specifies the number of the first row to load. The default is 1 and indicates the first row in the specified data file. The row numbers are determined by counting the row terminators. FIRSTROW is 1-based.
Reference:
<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/develop-openrowset>

NEW QUESTION 175

- (Exam Topic 5)
You have a SQL pool in Azure Synapse that contains a table named dbo.Customers. The table contains a column name Email.
You need to prevent nonadministrative users from seeing the full email addresses in the Email column. The users must see values in a format of aXXX@XXXX.com instead.
What should you do?

- A. From the Azure portal, set a mask on the Email column.
- B. From the Azure portal, set a sensitivity classification of Confidential for the Email column.
- C. From Microsoft SQL Server Management Studio, set an email mask on the Email column.
- D. From Microsoft SQL Server Management Studio, grant the SELECT permission to the users for all the columns in the dbo.Customers table except Email.

Answer: B

Explanation:
The Email masking method, which exposes the first letter and replaces the domain with XXX.com using a constant string prefix in the form of an email address.
Example: aXX@XXXX.com

NEW QUESTION 178

- (Exam Topic 5)
You have an Azure subscription.
You plan to deploy an Azure SQL database by using an Azure Resource Manager template.
How should you complete the template? To answer, select the appropriate options in the answer area.
NOTE:Each correct selection is worth one point.

Answer Area

```
{
  "resources": [
    {
      "type": 

Microsoft.Sql/servers  
Microsoft.SqlVirtualMachines/sqlVirtualMachines  
Microsoft.Synapse/workspaces/sqldatabases


      "apiVersion": "2020-02-02-preview",
      "name": "[parameters('name1')]",
      "location": "[parameters('location')]",
      ...
      "resources": [
        {
          "type": "databases",
          "apiVersion": "2020-02-02-preview",
          ...
          

"dependsOn":[  
"properties":[  
"tags":[  

          "[resourceId('Microsoft.Sql/servers',concat(parameters('name1')))]]"
          ...
        ]
      ]
    }
  ]
}


```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Text Description automatically generated
Reference:
<https://docs.microsoft.com/en-us/azure/azure-sql/database/single-database-create-arm-template-quickstart>

NEW QUESTION 181

- (Exam Topic 5)
You have an Azure Synapse Analytics dedicated SQL pool named Pool1 and an Azure Data Lake Storage Gen2 account named Account1. You plan to access the files in Account1 by using an external table. You need to create a data source in Pool1 that you can reference when you create the external table. How should you complete the Transact-SQL statement? To answer, select the appropriate options in the answer area.
NOTE:Each correct selection is worth one point.
CREATE EXTERNAL DATA SOURCE source1

```
WITH
(
  LOCATION = 'https://account1.

blob  
dfs  
table

.core.windows.net',
  

PUSHDOWN = ON  
TYPE = BLOB_STORAGE  
TYPE = HADOOP


)
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, table Description automatically generated
Box 1: blob
The following example creates an external data source for Azure Data Lake Gen2 CREATE EXTERNAL DATA SOURCE YellowTaxi
WITH (LOCATION = 'https://azureopendatastorage.blob.core.windows.net/nyctlc/yellow/', TYPE = HADOOP)
Box 2: HADOOP

Reference:
<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/develop-tables-external-tables>

NEW QUESTION 183

- (Exam Topic 5)

You have an Azure SQL managed instance named SQLMI1 that has Resource Governor enabled and is used by two apps named App1 and App2. You need to configure SQLMI1 to limit the CPU and memory resources that can be allocated to App1. Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
Create a workload group.	
Create a user-defined classifier function.	
Modify Resource Governor.	
Create a contained database user.	
Create a resource pool.	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Text, table Description automatically generated

Reference:

<https://docs.microsoft.com/en-us/sql/relational-databases/resource-governor/resource-governor?view=sql-server> <https://docs.microsoft.com/en-us/sql/relational-databases/resource-governor/create-and-test-a-classifier-user-def>

NEW QUESTION 185

- (Exam Topic 5)

You plan to deploy two instances of SQL Server on Azure virtual machines in a highly available configuration that will use an Always On availability group. You need to recommend a deployment solution that meets the following requirements:

- Provides a Service Level Agreement (SLA) of at least 99.95%
 - Replicates databases in the same group synchronously
 - Minimizes the latency of database writes
- What should you recommend?

- A. Create a proximity group and an availability se
- B. Deploy each virtual machine to the availability set Add both virtual machines to the proximity group.
- C. Create two proximity groups and a single availability se
- D. Deploy both virtual machines to the availability se
- E. Add one virtual machine to each proximity group.
- F. Create two proximity groups and two availability set
- G. Deploy each virtual machine to a unique availability se
- H. Add one virtual machine to each proximity group.
- I. Create a proximity group and two availability set
- J. Deploy each virtual machine to a unique availability se
- K. Add both virtual machines to the proximity group.

Answer: A

NEW QUESTION 186

- (Exam Topic 5)

You have an Azure virtual machine based on a custom image named VM1. VM1 hosts an instance of Microsoft SQL Server 2019 Standard. You need to automate the maintenance of VM1 to meet the following requirements: Automate the patching of SQL Server and Windows Server. Automate full database backups and transaction log backups of the databases on VM1. Minimize administrative effort. What should you do first?

- A. Enable a system-assigned managed identity for VM1
- B. Register VM1 to the Microsoft.Sql resource provider
- C. Install an Azure virtual machine Desired State Configuration (DSC) extension on VM1
- D. Register VM1 to the Microsoft.SqlVirtualMachine resource provider

Answer: D

Explanation:

Automated Patching depends on the SQL Server infrastructure as a service (IaaS) Agent Extension. The SQL Server IaaS Agent Extension (SqlIaaSExtension) runs on Azure virtual machines to automate administration tasks. The SQL Server IaaS extension is installed when you register your SQL Server VM with the SQL

Server VM resource provider. Reference:
<https://docs.microsoft.com/en-us/azure/azure-sql/virtual-machines/windows/sql-server-iaas-agent-extensionauto>

NEW QUESTION 188

- (Exam Topic 5)
You need to apply 20 built-in Azure Policy definitions to all new and existing Azure SQL Database deployments in an Azure subscription. The solution must minimize administrative effort.
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

Duplicate Azure Policy definitions

Run Azure Policy remediation tasks

Create an Azure Blueprints assignment

Create an Azure Policy initiative

Create an Azure Policy initiative assignment

Answer Area

>

<

^

v

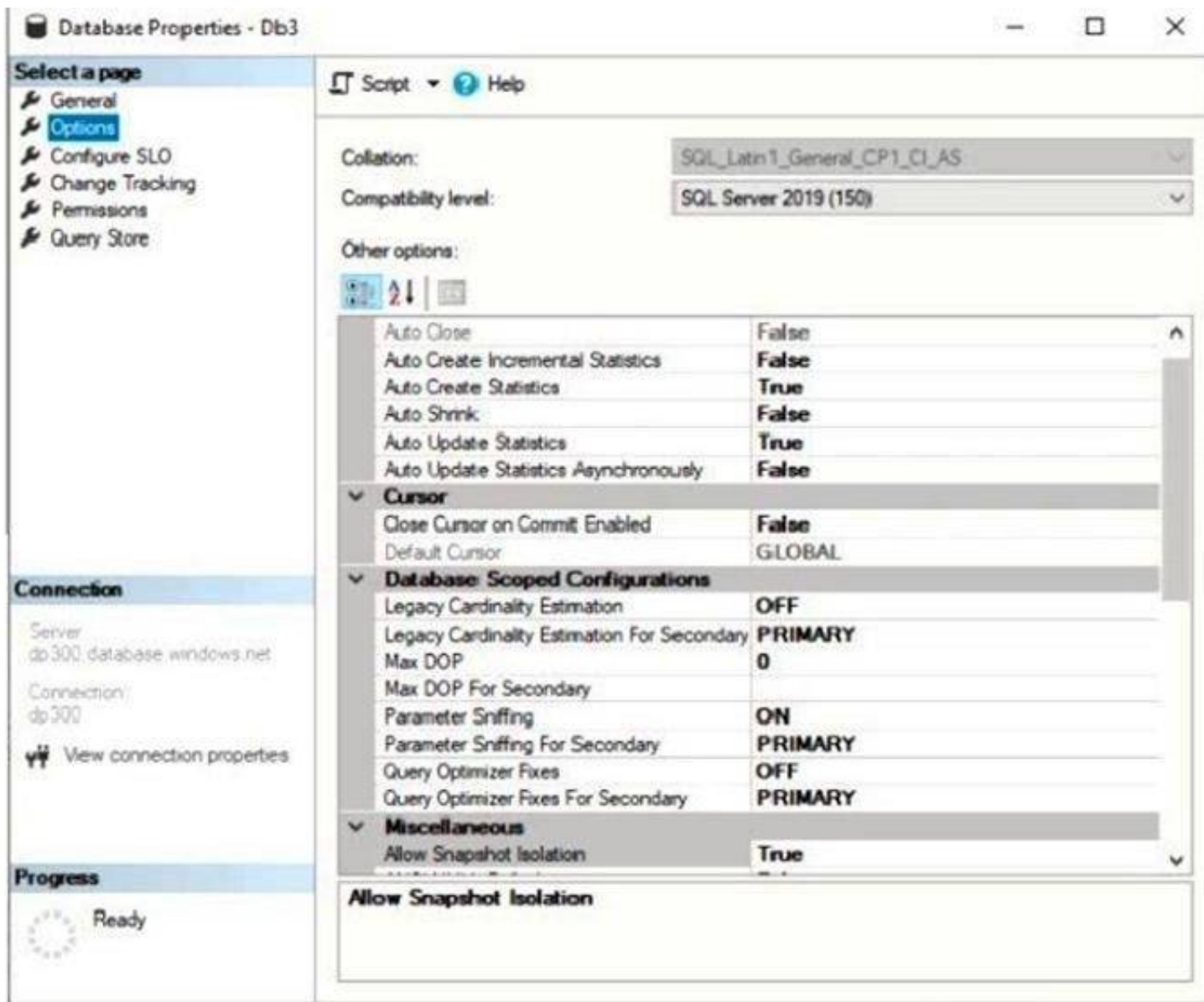
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:
Step 1: Create an Azure Policy Initiative
The first step in enforcing compliance with Azure Policy is to assign a policy definition. A policy definition defines under what condition a policy is enforced and what effect to take.
With an initiative definition, you can group several policy definitions to achieve one overarching goal. An initiative evaluates resources within scope of the assignment for compliance to the included policies.
Step 2: Create an Azure Policy Initiative assignment
Assign the initiative definition you created in the previous step. Step 3: Run Azure Policy remediation tasks
To apply the Policy Initiative to the existing SQL databases. Reference:
<https://docs.microsoft.com/en-us/azure/governance/policy/tutorials/create-and-manage>

NEW QUESTION 193

- (Exam Topic 5)
You have an Azure SQL database named DB3.
You need to provide a user named DevUser with the ability to view the properties of DB3 from Microsoft SQL Server Management Studio (SSMS) as shown in the exhibit. (Click theExhibittab.)



Which Transact-SQL command should you run?

- A. GRANT SHOWPLAN TO DevUser
- B. GRANT VIEW DEFINITION TO DevUser
- C. GRANT VIEW DATABASE STATE TO DevUser
- D. GRANT SELECT TO DevUser

Answer: C

Explanation:

The exhibits displays Database [State] properties.

To query a dynamic management view or function requires SELECT permission on object and VIEW SERVER STATE or VIEW DATABASE STATE permission.

Reference:

<https://docs.microsoft.com/en-us/sql/relational-databases/databases/database-properties-options-page>

NEW QUESTION 197

- (Exam Topic 5)

You have an Azure subscription that contains a server named Server1. Server1 hosts two Azure SQL databases named DB1 and DB2.

You plan to deploy a Windows app named App1 that will authenticate to DB2 by using SQL authentication. You need to ensure that App1 can access DB2. The solution must meet the following requirements:

- App1 must be able to view only DB2.
- Administrative effort must be minimized. What should you create?

- A. a contained database user for App1 on DB2
- B. a login for App1 on Server1
- C. a contained database user from an external provider for App1 on DB2
- D. a contained database user from a Windows login for App1 on DB2

Answer: D

Explanation:

Reference:

<https://docs.microsoft.com/en-us/sql/relational-databases/security/contained-database-users-making-your-databa>

NEW QUESTION 201

- (Exam Topic 5)

You have an Azure SQL logical server. You run the following script.

```
CREATE DATABASE Sales
GO
CREATE TABLE [dbo].[Orders]
(
    [OrderID] INT NOT NULL,
    [OrderDescription] NVARCHAR (MAX) NOT NULL,
    [Timestamp] Datetime2 NOT NULL
)
WITH (
    SYSTEM_VERSIONING = ON,
    LEDGER = ON
);
GO
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point

Statements	Yes	No
The <code>orders</code> table will allow only rows to be inserted.	<input type="radio"/>	<input type="radio"/>
To create additional tables in the Sales database, the <code>LEDGER = ON</code> parameter must be used.	<input type="radio"/>	<input type="radio"/>
To ensure that a timestamp is added to each row in the <code>orders</code> table, the <code>GENERATED ALWAYS</code>	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

- Yes
- No

NEW QUESTION 204

- (Exam Topic 5)

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 an Azure SQL database named Sales.

You need to implement disaster recovery for Sales to meet the following requirements:

- During normal operations, provide at least two readable copies of Sales.
- Ensure that Sales remains available if a datacenter fails.

Solution: You deploy an Azure SQL database that uses the Business Critical service tier and Availability Zones.

Does this meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

Premium and Business Critical service tiers leverage the Premium availability model, which integrates compute resources (sqlservr.exe process) and storage (locally attached SSD) on a single node. High availability is achieved by replicating both compute and storage to additional nodes creating a three to four-node cluster.

By default, the cluster of nodes for the premium availability model is created in the same datacenter. With the introduction of Azure Availability Zones, SQL Database can place different replicas of the Business Critical database to different availability zones in the same region. To eliminate a single point of failure, the control ring is also duplicated across multiple zones as three gateway rings (GW).

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/high-availability-sla>

NEW QUESTION 205

- (Exam Topic 5)

You have an Azure subscription.

You plan to deploy an instance of SQL Sevier on Azure Virtual Machines that supports Write Accelerator.

Which virtual machine series should you use?

- A. H-series
- B. G -series
- C. M-series
- D. E-series

Answer: C

NEW QUESTION 207

- (Exam Topic 5)

You have SQL Server on an Azure virtual machine named SQL1. SQL1 has an agent job to back up all databases.

You add a user named dbadmin1 as a SQL Server Agent operator. You need to ensure that dbadmin1 receives an email alert if a job fails.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

Create a job alert

Create a job notification

Enable Database Mail

Enable the email settings for the SQL Server Agent

Create a job target

Answer Area

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- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: Enable the email settings for the SQL Server Agent.

To send a notification in response to an alert, you must first configure SQL Server Agent to send mail. Step 2: Create a job alert

Step 3: Create a job notification Example:

-- adds an e-mail notification for the specified alert (Test Alert)
-- This example assumes that Test Alert already exists
-- and that François Ajenstat is a valid operator name. USE msdb ;
GO

```
EXEC dbo.sp_add_notification  
@alert_name = N'Test Alert',  
@operator_name = N'François Ajenstat',  
@notification_method = 1 ; GO
```

Reference:

<https://docs.microsoft.com/en-us/sql/ssms/agent/notify-an-operator-of-job-status> <https://docs.microsoft.com/en-us/sql/ssms/agent/assign-alerts-to-an-operator>

NEW QUESTION 212

- (Exam Topic 5)

You are designing a date dimension table in an Azure Synapse Analytics dedicated SQL pool. The date dimension table will be used by all the fact tables.

Which distribution type should you recommend to minimize data movement?

- A. HASH
- B. REPLICATE
- C. ROUND_ROBIN

Answer: B

Explanation:

A replicated table has a full copy of the table available on every Compute node. Queries run fast on replicated tables since joins on replicated tables don't require data movement. Replication requires extra storage, though, and isn't practical for large tables.

Reference:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables-distribu>

NEW QUESTION 215

- (Exam Topic 5)

You have an Azure SQL managed instance.

You need to gather the last execution of a query plan and its runtime statistics. The solution must minimize the impact on currently running queries.

What should you do?

- A. Generate an estimated execution plan.
- B. Generate an actual execution plan.

- C. Run sys.dm_exec_query_plan_stats.
- D. Generate Live Query Statistics.

Answer: C

Explanation:

Reference:

<https://docs.microsoft.com/en-us/sql/relational-databases/system-dynamic-management-views/sys-dm-exec-quer>

NEW QUESTION 217

- (Exam Topic 5)

You have a on-premises Microsoft SQL Server named SQL1 that hosts five databases.

You need to migrate the databases to an Azure SQL managed instance. The solution must minimize downtime and prevent data loss.

What should you use?

- A. log shipping
- B. Always On availability groups
- C. Database Migration Assistant
- D. Backup and Restore

Answer: C

NEW QUESTION 218

- (Exam Topic 5)

You need to recommend a disaster recovery solution for an on-premises Microsoft SQL Server database. The solution must meet the following requirements:

- Support real-time data replication to a different geographic region.
- Use Azure as a disaster recovery target.
- Minimize costs and administrative effort.

What should you include in the recommendation?

- A. database mirroring on an instance of SQL Server on Azure Virtual Machines
- B. availability groups for SQL Server on Azure Virtual Machines
- C. an Azure SQL Managed Instance link
- D. transactional replication to an Azure SQL Managed Instance

Answer: D

NEW QUESTION 220

- (Exam Topic 5)

You have an Azure AD tenant and a logical Microsoft SQL server named SQL1 that hosts several Azure SQL databases.

You plan to assign Azure AD users permissions to the databases automatically by using Azure Automation. You need to create the required Automation accounts.

Which two accounts should you create? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. From the Azure Active Directory admin center, create a service principal.
- B. From the Azure Active Directory admin center, create a user-assigned managed identity for SQL1.
- C. On SQL1, create a SQL user in the databases.
- D. On SQL1, create a SQL login.
- E. From the Azure Active Directory admin center, create an external identity.

Answer: AC

NEW QUESTION 223

- (Exam Topic 5)

You have an Azure Databricks workspace named workspace1 in the Standard pricing tier. Workspace1 contains an all-purpose cluster named cluster1.

You need to reduce the time it takes for cluster1 to start and scale up. The solution must minimize costs. What should you do first?

- A. Upgrade workspace1 to the Premium pricing tier.
- B. Configure a global init script for workspace1.
- C. Create a pool in workspace1.
- D. Create a cluster policy in workspace1.

Answer: C

Explanation:

You can use Databricks Pools to Speed up your Data Pipelines and Scale Clusters Quickly.

Databricks Pools, a managed cache of virtual machine instances that enables clusters to start and scale 4 times faster.

Reference:

<https://databricks.com/blog/2019/11/11/databricks-pools-speed-up-data-pipelines.html>

NEW QUESTION 227

- (Exam Topic 5)

You have 50 Azure SQL databases.

You need to notify the database owner when the database settings, such as the database size and pricing tier, are modified in Azure.

What should you do?

- A. Create a diagnostic setting for the activity log that has the Security log enabled.
- B. For the database, create a diagnostic setting that has the InstanceAndAppAdvanced metric enabled.
- C. Create an alert rule that uses a Metric signal type.

D. Create an alert rule that uses an Activity Log signal type.

Answer: D

Explanation:

Activity log events - An alert can trigger on every event, or, only when a certain number of events occur. Reference: <https://docs.microsoft.com/en-us/azure/azure-sql/database/alerts-insights-configure-portal>

NEW QUESTION 231

- (Exam Topic 5)

You configure a long-term retention policy for an Azure SQL database as shown in the exhibit. (Click the Exhibit tab.)

Configure policies

SQL server

Point in Time Restore Configuration

Configure PiTR backup retention

Days

Long-term Retention Configurations

☒ Weekly LTR Backups ⓘ

How long would you like weekly backups to be kept?

6

Week(s)

☒ Monthly LTR Backups ⓘ

How long would you like the first backup of each month to be kept?

12

Month(s)

☒ Yearly LTR Backups ⓘ

Which weekly backup of the year would you like to retain?

Week 2

How long would you like this annual backup to be kept?

10

Year(s)

The first weekly backup occurred on January 4, 2020. The dates for the first 10 weekly backups are:

- > January 4, 2020
- > January 11, 2020
- > January 18, 2020
- > January 25, 2020
- > February 1, 2020
- > February 8, 2020
- > February 15, 2020
- > February 22, 2020
- > February 29, 2020
- > March 7, 2020

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE:Each correct selection is worth one point.

The backup saved to long-term retention on January 4, 2020, will be retained for

	▼
6 weeks	
12 months	
10 years	

The backup saved to long-term retention on January 11, 2020 will be retained for

	▼
6 weeks	
12 months	
10 years	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 236

- (Exam Topic 5)

You have an Azure SQL database named DB1 that contains a nonclustered index named index1. End users report slow queries when they use index1. You need to identify the operations that are being performed on the index. Which dynamic management view should you use?

A.	<code>sys.dm_exec_query_plan_stats</code>
B.	<code>sys.dm_db_index_physical_stats</code>
C.	<code>sys.dm_db_index_operational_stats</code>
D.	<code>sys.dm_db_index_usage_stats</code>

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: D

NEW QUESTION 240

- (Exam Topic 5)

You have an Azure subscription that contains an Azure SQL database. The database fails to respond to queries in a timely manner.

You need to identify whether the issue relates to resource_semaphore waits.

How should you complete the Transact-SQL query? To answer, select the appropriate options in the answer area.

NOTE:Each correct selection is worth one point.

```
SELECT
    is_user_process
    wait_time
    wait_type
SUM(wait_time) AS total_wait_time_ms
FROM sys.
    dm_exec_query_stats
    dm_exec_requests
    query_store_query
JOIN sys.dm_exec_sessions AS dmvs2
    ON dmvs1.session_id = dmvs2.session_id
WHERE is_user_process = 1
GROUP BY wait_type
ORDER BY SUM(wait_time) DESC;
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:
Graphical user interface, text, application Description automatically generated
Reference:
<https://docs.microsoft.com/en-us/azure/azure-sql/database/monitoring-with-dmvs>

NEW QUESTION 241

- (Exam Topic 5)
You have an Azure SQL database named DB1. DB1 contains a table that has a column named Col1. You need to encrypt the data in Col1. Which four actions should you perform for DB1 in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

Create a database master key.

Create a column master key.

Open the symmetric key.

Create a certificate.

Update Col1.

Create a symmetric key.

Answer Area

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⬇

- A. Mastered
- B. Not Mastered

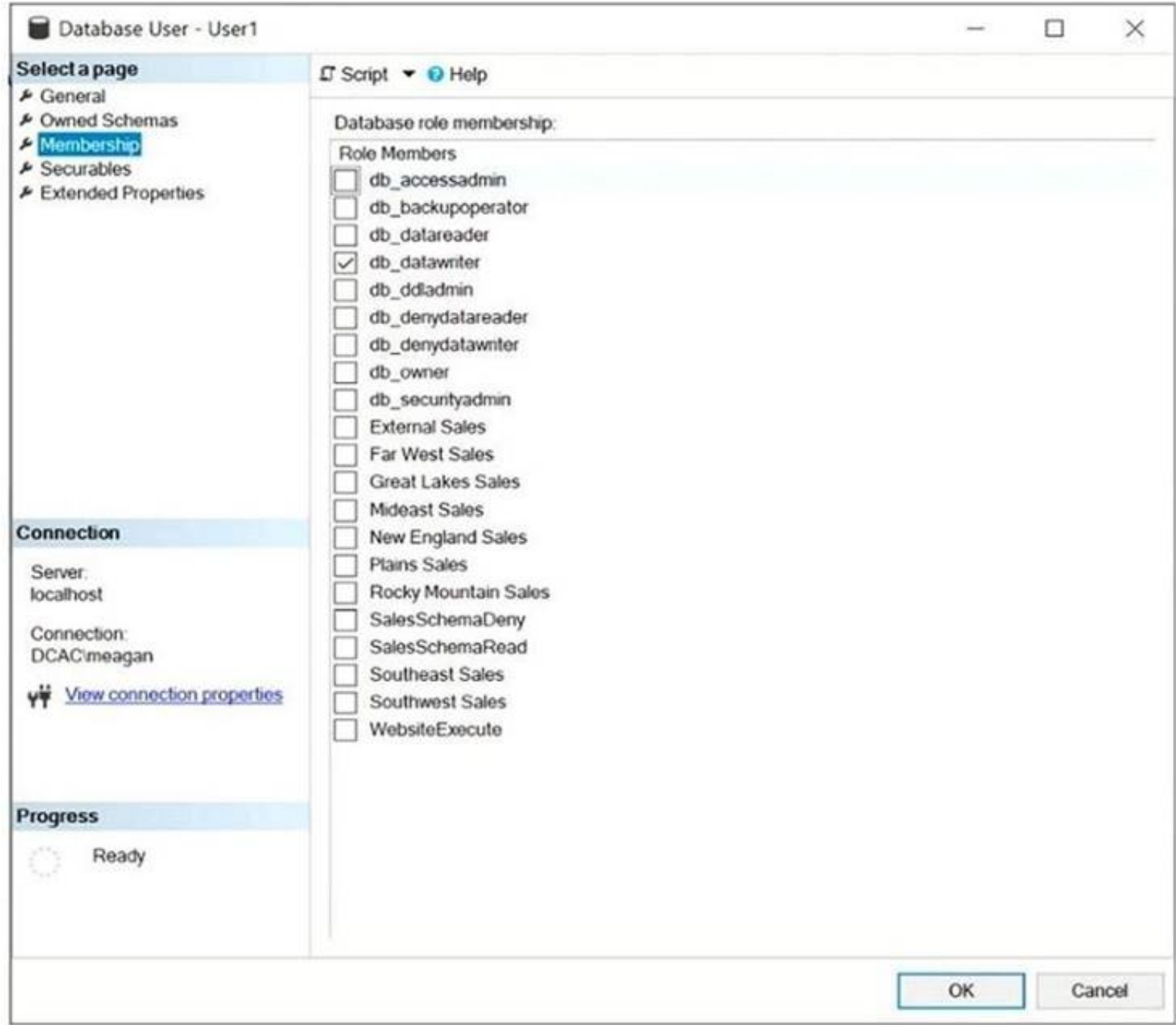
Answer: A

Explanation:
Table Description automatically generated
Reference:
<https://www.sqlshack.com/an-overview-of-the-column-level-sql-server-encryption/>

NEW QUESTION 243

- (Exam Topic 5)

You have a Microsoft SQL Server database named DB1 that contains a table named Table1. The database role membership for a user named User1 is shown in the following exhibit.



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.
NOTE:Each correct selection is worth one point.

User1 can [answer choice].

add a column to Table1

delete a row from Table1

delete Table1

To ensure that User1 can run queries to retrieve data from DB1, you must assign User1 the [answer choice] database role.

db_datareader

db_ddladmin

db_denydatareader

db_denydatawriter

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: delete a row from Table1
Members of the db_datawriter fixed database role can add, delete, or change data in all user tables. Box 2: db_datareader
Members of the db_datareader fixed database role can read all data from all user tables. Reference:
<https://docs.microsoft.com/en-us/sql/relational-databases/security/authentication-access/database-level-roles>

NEW QUESTION 248

- (Exam Topic 5)

You have an Azure subscription.
You need to deploy an Azure SQL managed instance that meets the following requirements:
•Optimize latency.

•Maximize the memory-to-vCore ratio.
Which service tier and hardware generation should you use? To answer, select the apocopate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer Area

Service tier:

Business Critical

Business CriticalGeneral PurposeHyperscale

Hardware generation:

Premium-series - memory optimized

Premium-seriesStandard-series (Gen 5)Premium-series - memory optimized

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Service tier:

Business Critical

Business CriticalGeneral PurposeHyperscale

Hardware generation:

Premium-series - memory optimized

Premium-seriesStandard-series (Gen 5)Premium-series - memory optimized

NEW QUESTION 251

- (Exam Topic 5)

You have an Azure Data Factory pipeline that performs an incremental load of source data to an Azure Data Lake Storage Gen2 account. Data to be loaded is identified by a column named LastUpdatedDate in the source table. You plan to execute the pipeline every four hours. You need to ensure that the pipeline execution meets the following requirements:
Automatically retries the execution when the pipeline run fails due to concurrency or throttling limits. Supports backfilling existing data in the table.
Which type of trigger should you use?

- A. tumbling window
- B. on-demand
- C. event
- D. schedule

Answer: A

Explanation:

The Tumbling window trigger supports backfill scenarios. Pipeline runs can be scheduled for windows in the past.

Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/concepts-pipeline-execution-triggers>

NEW QUESTION 256

- (Exam Topic 4)

You need to design an analytical storage solution for the transactional data. The solution must meet the sales transaction dataset requirements. What should you include in the solution? To answer, select the appropriate options in the answer area.
NOTE:Each correct selection is worth one point.

Table type to store retail store data:

HashReplicatedRound-robin

Table type to store promotional data:

HashReplicatedRound-robin

- A. Mastered

B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application Description automatically generated

Box 1: Hash Scenario:

Ensure that queries joining and filtering sales transaction records based on product ID complete as quickly as possible.

A hash distributed table can deliver the highest query performance for joins and aggregations on large tables. Box 2: Round-robin

Scenario:

You plan to create a promotional table that will contain a promotion ID. The promotion ID will be associated to a specific product. The product will be identified by a product ID. The table will be approximately 5 GB.

A round-robin table is the most straightforward table to create and delivers fast performance when used as a staging table for loads. These are some scenarios where you should choose Round robin distribution:

- When you cannot identify a single key to distribute your data.
- If your data doesn't frequently join with data from other tables.
- When there are no obvious keys to join.

Reference:

<https://rajanieshkaushikk.com/2020/09/09/how-to-choose-right-data-distribution-strategy-for-azure-synapse/>

NEW QUESTION 259

- (Exam Topic 2)

You need to implement a solution to notify the administrators. The solution must meet the monitoring requirements.

What should you do?

- A. Create an Azure Monitor alert rule that has a static threshold and assign the alert rule to an action group.
- B. Add a diagnostic setting that logs QueryStoreRuntimeStatistics and streams to an Azure event hub.
- C. Add a diagnostic setting that logs Timeouts and streams to an Azure event hub.
- D. Create an Azure Monitor alert rule that has a dynamic threshold and assign the alert rule to an action group.

Answer: D

Explanation:

Reference:

<https://azure.microsoft.com/en-gb/blog/announcing-azure-monitor-aiops-alerts-with-dynamic-thresholds/>

NEW QUESTION 263

- (Exam Topic 2)

What should you implement to meet the disaster recovery requirements for the PaaS solution?

- A. Availability Zones
- B. failover groups
- C. Always On availability groups
- D. geo-replication

Answer: B

Explanation:

Scenario: In the event of an Azure regional outage, ensure that the customers can access the PaaS solution with minimal downtime. The solution must provide automatic failover.

The auto-failover groups feature allows you to manage the replication and failover of a group of databases on a server or all databases in a managed instance to another region. It is a declarative abstraction on top of the existing active geo-replication feature, designed to simplify deployment and management of geo-replicated databases at scale. You can initiate failover manually or you can delegate it to the Azure service based on a user-defined policy.

The latter option allows you to automatically recover multiple related databases in a secondary region after a catastrophic failure or other unplanned event that results in full or partial loss of the SQL Database or SQL Managed Instance availability in the primary region.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/auto-failover-group-overview>

NEW QUESTION 267

- (Exam Topic 1)

You need to recommend the appropriate purchasing model and deployment option for the 30 new databases. The solution must meet the technical requirements and the business requirements.

What should you recommend? To answer, select the appropriate options in the answer area.

NOTE:Each correct selection is worth one point.

Purchasing model: ▼

DTU

vCore

Deployment option: ▼

An Azure SQL Database managed instance

A SQL Server Always On availability group

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: DTU

Scenario:

- > The 30 new databases must scale automatically.
- > Once all requirements are met, minimize costs whenever possible.

You can configure resources for the pool based either on the DTU-based purchasing model or the vCore-based purchasing model.

In short, for simplicity, the DTU model has an advantage. Plus, if you're just getting started with Azure SQL Database, the DTU model offers more options at the lower end of performance, so you can get started at a lower price point than with vCore.

Box 2: An Azure SQL database elastic pool

Azure SQL Database elastic pools are a simple, cost-effective solution for managing and scaling multiple databases that have varying and unpredictable usage demands. The databases in an elastic pool are on a single server and share a set number of resources at a set price. Elastic pools in Azure SQL Database enable SaaS developers to optimize the price performance for a group of databases within a prescribed budget while delivering performance elasticity for each database.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/elastic-pool-overview> <https://docs.microsoft.com/en-us/azure/azure-sql/database/reserved-capacity-overview>

NEW QUESTION 272

- (Exam Topic 1)

You need to implement statistics maintenance for SalesSQLDb1. The solution must meet the technical requirements.

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

Create and configure a schedule.

Create a SQL Server Agent job.

Publish the runbook.

Create an Azure Automation account.

Import the SqlServer module.

Create a runbook that runs a PowerShell script.

Run sp_add_jobserver.

Answer Area

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Automating Azure SQL DB index and statistics maintenance using Azure Automation:

- * 1. Create Azure automation account (Step 1)
- * 2. Import SQLServer module (Step 2)
- * 3. Add Credentials to access SQL DB

This will use secure way to hold login name and password that will be used to access Azure SQL DB

- * 4. Add a runbook to run the maintenance (Step 3)

Steps:1. Click on "runbooks" at the left panel and then click "add a runbook"

- * 2. Choose "create a new runbook" and then give it a name and choose "Powershell" as the type of the runbook and then click on "create"

Add Runbook	Runbook
Quick Create Create a new runbook	<p>* Name ⓘ <input type="text" value="SqlMaintenance"/> ✓</p> <p>* Runbook type ⓘ <input type="text" value="PowerShell"/> ▼</p> <p>Description <input type="text" value=""/> ✓</p>
Import Import an existing runbook	

* 5. Schedule task (Step 4)
 Steps: 1. Click on Schedules 2. Click on "Add a schedule" and follow the instructions to choose existing schedule or create a new schedule.
 Reference:
<https://techcommunity.microsoft.com/t5/azure-database-support-blog/automating-azure-sql-db-index-and-statist>

NEW QUESTION 275

- (Exam Topic 1)

You need to implement authentication for ResearchDB1. The solution must meet the security and compliance requirements. What should you run as part of the implementation?

- A. CREATE LOGIN and the FROM WINDOWS clause
- B. CREATE USER and the FROM CERTIFICATE clause
- C. CREATE USER and the FROM LOGIN clause
- D. CREATE USER and the ASYMMETRIC KEY clause
- E. CREATE USER and the FROM EXTERNAL PROVIDER clause

Answer: E

Explanation:

Scenario: Authenticate database users by using Active Directory credentials.
 (Create a new Azure SQL database named ResearchDB1 on a logical server named ResearchSrv01.) Authenticate the user in SQL Database or SQL Data Warehouse based on an Azure Active Directory user: CREATE USER [Fritz@contoso.com] FROM EXTERNAL PROVIDER;
 Reference:
<https://docs.microsoft.com/en-us/sql/t-sql/statements/create-user-transact-sql>

NEW QUESTION 276

- (Exam Topic 1)

You need to identify the cause of the performance issues on SalesSQLDb1. Which two dynamic management views should you use? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. sys.dm_pdw_nodes_tran_locks
- B. sys.dm_exec_compute_node_errors
- C. sys.dm_exec_requests
- D. sys.dm_cdc_errors
- E. sys.dm_pdw_nodes_os_wait_stats
- F. sys.dm_tran_locks

Answer: AE

Explanation:

SalesSQLDb1 experiences performance issues that are likely due to out-of-date statistics and frequent blocking queries.
 A: Use sys.dm_pdw_nodes_tran_locks instead of sys.dm_tran_locks from Azure Synapse Analytics (SQL Data Warehouse) or Parallel Data Warehouse.
 E: Example:
 The following query will show blocking information. SELECT
 t1.resource_type, t1.resource_database_id, t1.resource_associated_entity_id, t1.request_mode, t1.request_session_id, t2.blocking_session_id
 FROM sys.dm_tran_locks as t1
 INNER JOIN sys.dm_os_waiting_tasks as t2
 ON t1.lock_owner_address = t2.resource_address;
 Note: Depending on the system you're working with you can access these wait statistics from one of three locations:
 sys.dm_os_wait_stats: for SQL Server sys.dm_db_wait_stats: for Azure SQL Database
 sys.dm_pdw_nodes_os_wait_stats: for Azure SQL Data Warehouse Reference:
<https://docs.microsoft.com/en-us/sql/relational-databases/system-dynamic-management-views/sys-dm-tran-lock>

NEW QUESTION 277

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