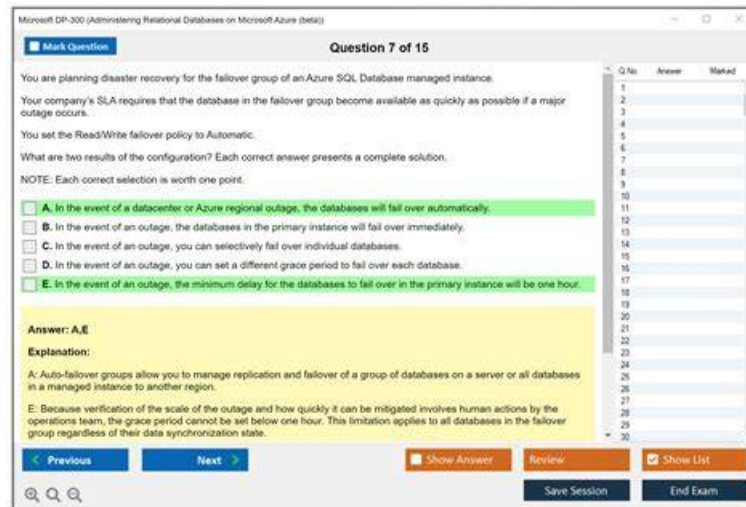


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Microsoft DP-300 Exam Syllabus Topics:

Section	Weight	Objectives
Optimize query performance	15–20%	- Improve query performance 1. Use query store and performance tuning tools 2. Optimize T-SQL code and constructs 3. Create and modify indexes - Manage workload performance 1. Control resource usage and concurrency 2. Troubleshoot slow-running queries 3. Implement partitioning and compression - Analyze query execution plans 1. Interpret execution plans and statistics 2. Identify bottlenecks and inefficiencies 3. Evaluate index usage and design

Plan and implement data platform resources	15–20%	- Deploy database resources • 1. Automate deployment using templates, PowerShell, or CLI • 2. Deploy Azure SQL Database, Managed Instance, and SQL Server on Azure VMs • 3. Configure resources for scale and performance - Implement migration strategies • 1. Migrate between Azure services or from on-premises • 2. Perform offline and online migrations • 3. Evaluate migration requirements and strategies - Plan deployment of database offerings • 1. Evaluate deployment options for Azure SQL services • 2. Identify use cases for hybrid and multi-cloud solutions • 3. Plan for scalability and performance requirements
Plan and configure high availability and disaster recovery	20–25%	- Configure high availability solutions • 1. Test and monitor HA/DR operations • 2. Implement failover groups and auto-failover • 3. Configure Always On availability groups - Implement backup and restore • 1. Configure automated backups and retention • 2. Perform point-in-time and long-term retention restores • 3. Manage backup storage and costs - Design HA/DR strategy • 1. Evaluate hybrid and cross-region options • 2. Choose between built-in and custom solutions • 3. Define RPO and RTO requirements
Monitor and optimize operational resources	15–20%	- Optimize resource consumption • 1. Implement auto-scaling and elasticity • 2. Adjust compute, storage, and tier settings • 3. Manage costs and licensing - Automate maintenance and operations • 1. Automate tasks using jobs, scripts, or Logic Apps • 2. Manage database lifecycle operations • 3. Schedule and perform updates and patches - Monitor database performance and health • 1. Set up alerts and notifications • 2. Identify and diagnose performance issues • 3. Use Azure Monitor, SQL Insights, and metrics

Implement a secure environment	20–25%	- Implement compliance and security controls • 1. Assess and remediate vulnerabilities • 2. Implement data masking and classification • 3. Configure auditing and logging - Secure data at rest and in transit • 1. Manage keys and certificates • 2. Configure encryption for connections and data transfer • 3. Implement Transparent Data Encryption - Configure authentication and authorization • 1. Implement Microsoft Entra ID authentication • 2. Manage database users, roles, and permissions • 3. Apply least privilege principle
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Microsoft Administering Relational Databases on Microsoft Azure Sample Questions (Q350-Q355):

NEW QUESTION # 350

Task 9

You need to ensure that when non-administrative users query the SalesLT.Customer table in db1, email addresses are obscured. For example, an email address of `alice@contoso.com` must appear as `aXXX@XXXX.com`.

You may need to use SQL Server Management Studio and the Azure portal.

Answer:

Explanation:

See the explanation part for the complete Solution.

Explanation:

Configure Dynamic Data Masking on the email column in:

SalesLT.Customer

The column is normally:

EmailAddress

Use the built-in masking function:

`email()`

Microsoft documents that Dynamic Data Masking hides sensitive data in query results for nonprivileged users without changing the stored data. The built-in `email()` masking function exposes the first letter and returns the masked format `aXXX@XXXX.com`, which exactly matches the requirement.

Method 1 - SSMS / T-SQL Method

This is the fastest and most reliable method.

Step 1: Connect to db1

Open SQL Server Management Studio.

Connect to the Azure SQL logical server that hosts db1.

Open a query window against database:

db1

Step 2: Apply the email mask

Run:

```
ALTER TABLE [SalesLT].[Customer]
ALTER COLUMN [EmailAddress]
ADD MASKED WITH (FUNCTION = 'email()');
```

This adds a Dynamic Data Masking rule to the EmailAddress column. The actual email address remains stored in the table, but users without permission to view unmasked data will see the masked value. Microsoft's documented syntax for adding an email mask is ALTER COLUMN Email ADD MASKED WITH (FUNCTION = 'email()').

Step 3: Verify that the column is masked

Run:

```
SELECT
OBJECT_SCHEMA_NAME(mc.object_id) AS schema_name,
OBJECT_NAME(mc.object_id) AS table_name,
c.name AS column_name,
mc.masking_function
FROM sys.masked_columns AS mc
JOIN sys.columns AS c
ON mc.object_id = c.object_id
AND mc.column_id = c.column_id
WHERE OBJECT_SCHEMA_NAME(mc.object_id) = 'SalesLT'
AND OBJECT_NAME(mc.object_id) = 'Customer'
AND c.name = 'EmailAddress';
```

Expected result:

```
schema_name SalesLT
table_name Customer
column_name EmailAddress
masking_function email()
```

Step 4: Test as a non-administrative user

If you have a test user, run:

```
EXECUTE AS USER = 'TestUser';
SELECT TOP (10)
EmailAddress
FROM SalesLT.Customer;
REVERT;
```

Expected output should look like:

```
aXXX@XXXX.com
bXXX@XXXX.com
cXXX@XXXX.com
```

A user with administrative privileges, db_owner, or UNMASK permission can still see the original email value. Microsoft states that users with administrative rights such as server admin, Microsoft Entra admin, and db_owner can view the original unmasked data.

Method 2 - Azure Portal Method

Use this if the simulation expects portal configuration.

Step 1: Open db1

Sign in to the Azure portal.

Search for SQL databases.

Open database:

db1

Step 2: Open Dynamic Data Masking

From the db1 page:

Security > Dynamic Data Masking

Microsoft states that for Azure SQL Database, Dynamic Data Masking can be configured in the Azure portal from the SQL database configuration pane under Security > Dynamic Data Masking.

Step 3: Add a masking rule

Add a mask for the email column:

Setting

Value

Schema

SalesLT

Table

Customer

Column

EmailAddress

Masking field format

Email

Masking function

email()

Then select:

Save

The portal may show the mask type simply as:

Email

That is the correct option because it maps to the email() masking function.

Important Permission Check

Dynamic Data Masking only affects users who do not have permission to view unmasked data.

If a non-administrative user was previously granted UNMASK, remove it:

REVOKE UNMASK TO [UserName];

Or, if a role was granted UNMASK, revoke it from the role:

REVOKE UNMASK TO [RoleName];

Do not grant UNMASK to normal users. UNMASK allows users to bypass masking and see the original values. Microsoft documents that UNMASK permission controls whether users can view masked or original data.

Final Exam-Lab Action

Run this against db1:

```
ALTER TABLE [SalesLT].[Customer]
```

```
ALTER COLUMN [EmailAddress]
```

```
ADD MASKED WITH (FUNCTION = 'email()');
```

Then verify:

```
SELECT
```

```
OBJECT_SCHEMA_NAME(object_id) AS schema_name,
```

```
OBJECT_NAME(object_id) AS table_name,
```

```
name AS column_name,
```

```
masking_function
```

```
FROM sys.masked_columns
```

```
WHERE OBJECT_SCHEMA_NAME(object_id) = 'SalesLT'
```

```
AND OBJECT_NAME(object_id) = 'Customer'
```

```
AND name = 'EmailAddress';
```

The task is complete when non-administrative users querying SalesLT.Customer.EmailAddress see masked email values such as:

aXXX@XXXX.com

NEW QUESTION # 351

You are planning the migration of the SERVER1 databases. The solution must meet the business requirements.

What should you include in the migration plan? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Azure Database Migration Service pricing tier:

Standard 2-vCore
Standard 4-vCore
Premium 4-vCore

Required Azure resource:

A virtual network that has service endpoints
A VPN gateway
An Azure Logic app



Answer:

Explanation:

Azure Database Migration Service pricing tier:

- Standard 2-vCore
- Standard 4-vCore
- Premium 4-vCore

Required Azure resource:

- A virtual network that has service endpoints
- A VPN gateway
- An Azure Logic app

Reference:

<https://azure.microsoft.com/pricing/details/database-migration/>

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

NEW QUESTION # 352

Which windowing function should you use to perform the streaming aggregation of the sales data?

- A. Tumbling
- B. Session
- C. Hopping
- D. Sliding

Answer: A

Explanation:

Scenario: The sales data, including the documents in JSON format, must be gathered as it arrives and analyzed online by using Azure Stream Analytics. The analytics process will perform aggregations that must be done continuously, without gaps, and without overlapping.

Tumbling window functions are used to segment a data stream into distinct time segments and perform a function against them, such as the example below. The key differentiators of a Tumbling window are that they repeat, do not overlap, and an event cannot belong to more than one tumbling window.

Timeline Description automatically generated

Tell me the count of Tweets per time zone every 10 seconds



```
SELECT TimeZone, COUNT(*) AS Count
FROM TwitterStream TIMESTAMP BY CreatedAt
GROUP BY TimeZone, TumblingWindow(second,10)
```

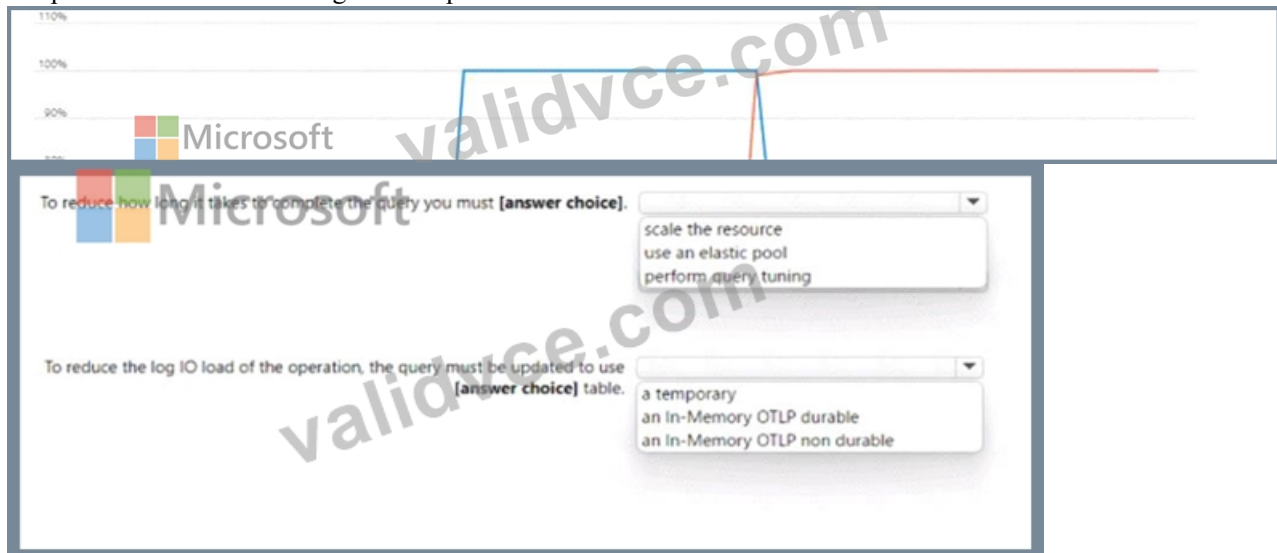
Reference:

NEW QUESTION # 353

You have an Azure SQL database named that contains a table named Table1.

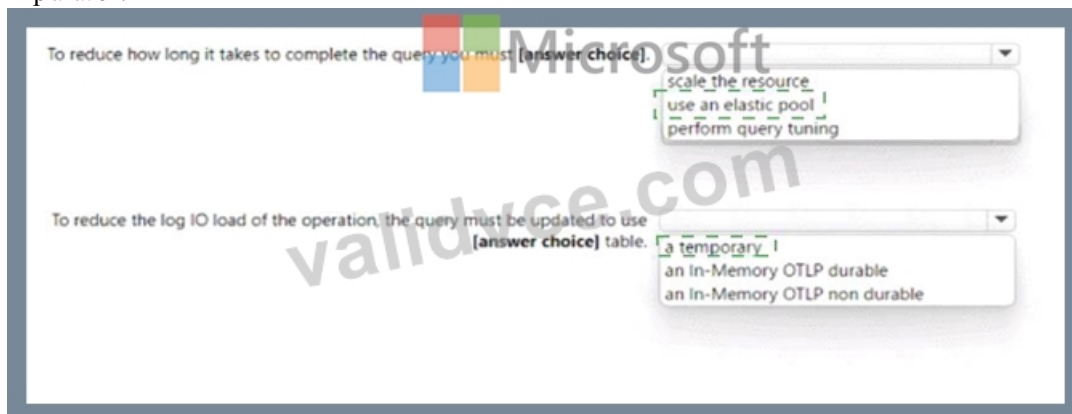
You run a query to bad data into Table1.

The performance Of Table1 during the load operation are shown in exhibit.

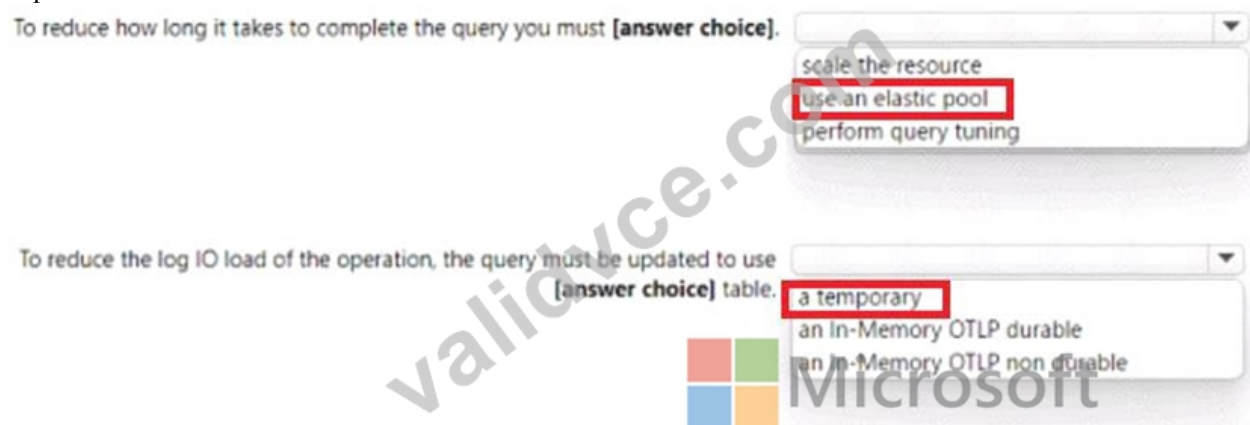


Answer:

Explanation:



Explanation



NEW QUESTION # 354

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.

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.	☐	☐
An alert notification was sent after the failure of Activity3 in PipelineA.	☐	☐
An alert notification was sent after the failure of Activity1 in PipelineB.	☐	☐

Answer:

Explanation:

Statements	Yes	No
An alert notification was sent after the failure of Activity1 in PipelineA.	☐	☒
An alert notification was sent after the failure of Activity3 in PipelineA.	☐	☒
An alert notification was sent after the failure of Activity1 in PipelineB.	☐	☒

Reference:

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

NEW QUESTION # 355

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