



DP-200^{Q&As}

Implementing an Azure Data Solution

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QUESTION 1

You need to mask tier 1 data. Which functions should you use? To answer, select the appropriate option in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Data type

A

Masking function

custom text	V
default	
email	
random number	

B

custom text	V
default	
email	
random number	

C

custom text	V
default	
email	
random number	

Correct Answer:



Answer Area

Data type

A

Masking function

custom text	V
default	
email	
random number	

B

custom text	V
default	
email	
random number	

C

custom text	V
default	
email	
random number	

A: Default

Full masking according to the data types of the designated fields.

For string data types, use XXXX or fewer Xs if the size of the field is less than 4 characters (char, nchar, varchar, nvarchar, text, ntext).

B: email

C: Custom text

Custom StringMasking method which exposes the first and last letters and adds a custom padding string in the middle.
prefix,[padding],suffix

Tier 1 Database must implement data masking using the following masking logic:



Data type	Masking requirement
A	Mask 4 or less string data type characters
B	Mask first letter and domain
C	Mask everything except characters at the beginning and end

References: <https://docs.microsoft.com/en-us/sql/relational-databases/security/dynamic-data-masking>

QUESTION 2

HOTSPOT

You have two Azure Storage accounts named Storage1 and Storage2. Each account contains an Azure Data Lake Storage file system. The system has files that contain data stored in the Apache Parquet format.

You need to copy folders and files from Storage1 to Storage2 by using a Data Factory copy activity. The solution must meet the following requirements:

No transformations must be performed.

The original folder structure must be retained.

How should you configure the copy activity? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Source dataset type:

	▼
Binary	
Parquet	
Delimited text	

Copy activity copy behavior:

	▼
FlattenHierarchy	
MergeFiles	
PreserveHierarchy	



Correct Answer:

Answer Area

Source dataset type:

	▼
Binary	
Parquet	
Delimited text	

Copy activity copy behavior:

	▼
FlattenHierarchy	
MergeFiles	
PreserveHierarchy	

Box 1: Parquet

For Parquet datasets, the type property of the copy activity source must be set to ParquetSource..

Box 2: PreserveHierarchy

PreserveHierarchy (default): Preserves the file hierarchy in the target folder. The relative path of the source file to the source folder is identical to the relative path of the target file to the target folder.

Incorrect Answers:

FlattenHierarchy: All files from the source folder are in the first level of the target folder. The target files have autogenerated names.

MergeFiles: Merges all files from the source folder to one file. If the file name is specified, the merged file name is the specified name. Otherwise, it's an autogenerated file name.

Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/format-parquet>

<https://docs.microsoft.com/en-us/azure/data-factory/connector-azure-data-lake-storage>

QUESTION 3

You have an Azure data solution that contains an Azure SQL data warehouse named DW1.



Several users execute adhoc queries to DW1 concurrently.

You regularly perform automated data loads to DW1.

You need to ensure that the automated data loads have enough memory available to complete quickly and successfully when the adhoc queries run

What should you do?

- A. Hash distribute the large fact tables in DW1 before performing the automated data loads.
- B. Assign a larger resource class to the automated data load queries.
- C. Create sampled statistics for every column in each table of DW1.
- D. Assign a smaller resource class to the automated data load queries.

Correct Answer: B

To ensure the loading user has enough memory to achieve maximum compression rates, use loading users that are a member of a medium or large resource class.

References: <https://docs.microsoft.com/en-us/azure/sql-data-warehouse/guidance-for-loading-data>

QUESTION 4

You have a SQL pool in Azure Synapse.

A user reports that queries against the pool take longer than expected to complete.

You need to add monitoring to the underlying storage to help diagnose the issue.

Which two metrics should you monitor? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Cache used percentage
- B. DWU Limit
- C. Snapshot Storage Size
- D. Active queries
- E. Cache hit percentage

Correct Answer: AE

A: Cache used is the sum of all bytes in the local SSD cache across all nodes and cache capacity is the sum of the storage capacity of the local SSD cache across all nodes.

E: Cache hits is the sum of all columnstore segments hits in the local SSD cache and cache miss is the columnstore segments misses in the local SSD cache summed across all nodes

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



resource-utilization-query-activity

QUESTION 5

You develop data engineering solutions for a company.

A project requires the deployment of data to Azure Data Lake Storage.

You need to implement role-based access control (RBAC) so that project members can manage the Azure Data Lake Storage resources.

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

NOTE: Each correct selection is worth one point.

- A. Assign Azure AD security groups to Azure Data Lake Storage.
- B. Configure end-user authentication for the Azure Data Lake Storage account.
- C. Configure service-to-service authentication for the Azure Data Lake Storage account.
- D. Create security groups in Azure Active Directory (Azure AD) and add project members.
- E. Configure access control lists (ACL) for the Azure Data Lake Storage account.

Correct Answer: ADE

AD: Create security groups in Azure Active Directory. Assign users or security groups to Data Lake Storage Gen1 accounts.

E: Assign users or security groups as ACLs to the Data Lake Storage Gen1 file system

References: <https://docs.microsoft.com/en-us/azure/data-lake-store/data-lake-store-secure-data>

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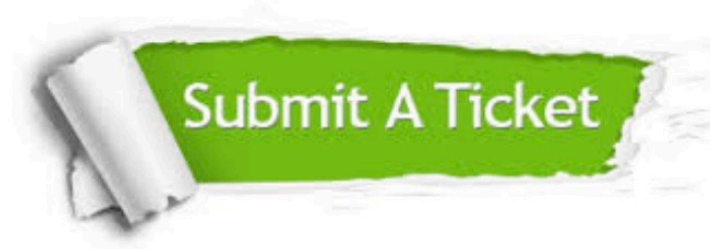
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