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Microsoft DP-203 Certification Exam is a great way for data engineers to demonstrate their expertise in designing and implementing data solutions on Azure. It is also a great way for professionals to enhance their career opportunities and increase their earning potential. With this certification, data engineers can show their proficiency in creating data pipelines, managing data storage, and processing data on Azure.

Microsoft Data Engineering on Microsoft Azure Sample Questions (Q132-Q137):

NEW QUESTION # 132

You have an Azure Data Lake Storage Gen 2 account named storage1.

You need to recommend a solution for accessing the content in storage1. The solution must meet the following requirements:

List and read permissions must be granted at the storage account level.

Additional permissions can be applied to individual objects in storage1.

Security principals from Microsoft Azure Active Directory (Azure AD), part of Microsoft Entra, must be used for authentication.

What should you use? To answer, drag the appropriate components to the correct requirements. Each component may be used

once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.

Components

Access control lists (ACLs)

Role-based access control (RBAC) roles

Shared access signatures (SAS)

Shared account keys

Answer Area

To grant permissions at the storage account level:

To grant permissions at the object level:



Microsoft

Answer:

Explanation:

Components

Access control lists (ACLs)

Role-based access control (RBAC) roles

Shared access signatures (SAS)

Shared account keys

Answer Area

To grant permissions at the storage account level: Role-based access control (RBAC) roles

To grant permissions at the object level: Access control lists (ACLs)

Microsoft

Explanation:

Box 1: Role-based access control (RBAC) roles

List and read permissions must be granted at the storage account level.

Security principals from Microsoft Azure Active Directory (Azure AD), part of Microsoft Entra, must be used for authentication.

Role-based access control (Azure RBAC)

Azure RBAC uses role assignments to apply sets of permissions to security principals. A security principal is an object that represents a user, group, service principal, or managed identity that is defined in Azure Active Directory (AD). A permission set can give a security principal a "coarse-grain" level of access such as read or write access to all of the data in a storage account or all of the data in a container.

Box 2: Access control lists (ACLs)

Additional permissions can be applied to individual objects in storage1.

Access control lists (ACLs)

ACLs give you the ability to apply "finer grain" level of access to directories and files. An ACL is a permission construct that contains a series of ACL entries. Each ACL entry associates security principal with an access level.

Reference: <https://learn.microsoft.com/en-us/azure/storage/blobs/data-lake-storage-access-control-model>

NEW QUESTION # 133

You are designing an Azure Synapse Analytics dedicated SQL pool.

Groups will have access to sensitive data in the pool as shown in the following table.

Name	Enhanced access
Executives	No access to sensitive data
Analysts	Access to in-region sensitive data
Engineers	Access to all numeric sensitive data

You have policies for the sensitive data. The policies vary by region as shown in the following table.

Region	Data considered sensitive
RegionA	Financial, Personally Identifiable Information (PII)
RegionB	Financial, Personally Identifiable Information (PII), medical
RegionC	Financial, medical

You have a table of patients for each region. The tables contain the following potentially sensitive columns.

Name	Sensitive data	Description
CardOnFile	Financial	Debit/credit card number for charges
Height	Medical	Patient's height in cm
ContactEmail	PII	Email address for secure communications

You are designing dynamic data masking to maintain compliance.

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
Analysts in RegionA require dynamic data masking rules for [Patients_RegionA]	☐	☐
Engineers in RegionC require a dynamic data masking rule for [Patients_RegionA], [Height]	☐	☐
Engineers in RegionB require a dynamic data masking rule for [Patients_RegionB], [Height]	☐	☐

Answer:

Explanation:

Statements	Yes	No
Analysts in RegionA require dynamic data masking rules for [Patients_RegionA]	☒	☐
Engineers in RegionC require a dynamic data masking rule for [Patients_RegionA], [Height]	☐	☒
Engineers in RegionB require a dynamic data masking rule for [Patients_RegionB], [Height]	☒	☐

Explanation

Text Description automatically generated

Statements	Yes	No
Analysts in RegionA require dynamic data masking rules for [Patients_RegionA]	☒	☐
Engineers in RegionC require a dynamic data masking rule for [Patients_RegionA], [Height]	☐	☒
Engineers in RegionB require a dynamic data masking rule for [Patients_RegionB], [Height]	☒	☐

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/dynamic-data-masking-overview>

Topic 2, Contoso Case Study/Transactional Data

Contoso has three years of customer, transactional, operation, sourcing, and supplier data comprised of 10 billion records stored across multiple on-premises Microsoft SQL Server servers. The SQL server instances contain data from various operational systems. The data is loaded into the instances by using SQL server integration Services (SSIS) packages.

You estimate that combining all product sales transactions into a company-wide sales transactions dataset will result in a single table that contains 5 billion rows, with one row per transaction.

Most queries targeting the sales transactions data will be used to identify which products were sold in retail stores and which products were sold online during different time period. Sales transaction data that is older than three years will be removed monthly.

You plan to create a retail store table that will contain the address of each retail store. The table will be approximately 2 MB.

Queries for retail store sales will include the retail store addresses.

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.

Streaming Twitter Data

The ecommerce department at Contoso develops an Azure logic app that captures trending Twitter feeds referencing the company's products and pushes the products to Azure Event Hubs.

Planned Changes

Contoso plans to implement the following changes:

- * Load the sales transaction dataset to Azure Synapse Analytics.
- * Integrate on-premises data stores with Azure Synapse Analytics by using SSIS packages.
- * Use Azure Synapse Analytics to analyze Twitter feeds to assess customer sentiments about products.

Sales Transaction Dataset Requirements

Contoso identifies the following requirements for the sales transaction dataset:

- * Partition data that contains sales transaction records. Partitions must be designed to provide efficient loads by month. Boundary values must belong to the partition on the right.
- * Ensure that queries joining and filtering sales transaction records based on product ID complete as quickly as possible.
- * Implement a surrogate key to account for changes to the retail store addresses.
- * Ensure that data storage costs and performance are predictable.
- * Minimize how long it takes to remove old records.

Customer Sentiment Analytics Requirement

Contoso identifies the following requirements for customer sentiment analytics:

- * Allow Contoso users to use PolyBase in an Azure Synapse Analytics dedicated SQL pool to query the content of the data records that host the Twitter feeds. Data must be protected by using row-level security (RLS). The users must be authenticated by using their own Azure AD credentials.
- * Maximize the throughput of ingesting Twitter feeds from Event Hubs to Azure Storage without purchasing additional throughput or capacity units.
- * Store Twitter feeds in Azure Storage by using Event Hubs Capture. The feeds will be converted into Parquet files.
- * Ensure that the data store supports Azure AD-based access control down to the object level.
- * Minimize administrative effort to maintain the Twitter feed data records.
- * Purge Twitter feed data records that are older than two years.

Data Integration Requirements

Contoso identifies the following requirements for data integration:

Use an Azure service that leverages the existing SSIS packages to ingest on-premises data into datasets stored in a dedicated SQL pool of Azure Synapse Analytics and transform the data.

Identify a process to ensure that changes to the ingestion and transformation activities can be version controlled and developed independently by multiple data engineers.

NEW QUESTION # 134

You are designing an application that will store petabytes of medical imaging data. When the data is first created, the data will be accessed frequently during the first week. After one month, the data must be accessible within 30 seconds, but files will be accessed infrequently. After one year, the data will be accessed infrequently but must be accessible within five minutes.

You need to select a storage strategy for the data.

a. The solution must minimize costs.

Which storage tier should you use for each time frame? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

First week: Microsoft

Archive
Cool
Hot

After one month:

Archive
Cool
Hot

After one year:

Archive
Cool
Hot

Answer:

Explanation:

First week:

Archive
Cool
Hot

After one month:

Archive
Cool
Hot

After one year:

Archive
Cool
Hot

Reference:

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers>

NEW QUESTION # 135

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. .core.windows.net',
PUSHDOWN = ON
TYPE = BLOB_STORAGE
TYPE = HADOOP
)

blob
dfs
table

Answer:

Explanation:

CREATE EXTERNAL DATA SOURCE source1
WITH
(LOCATION = 'https://account1. .core.windows.net',
PUSHDOWN = ON
TYPE = BLOB_STORAGE
TYPE = HADOOP
)

blob
dfs
table

Reference:

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

NEW QUESTION # 136

You develop a dataset named DBTBL1 by using Azure Databricks.

DBTBL1 contains the following columns:

SensorTypeID

GeographyRegionID

Year

Month

Day

Hour

Minute

Temperature

WindSpeed

Other

You need to store the data to support daily incremental load pipelines that vary for each GeographyRegionID. The solution must minimize storage costs.

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

NOTE: Each correct selection is worth one point.

```
df.write
```

▼	▼
.bucketBy	("*")
.format	("GeographyRegionID")
.partitionBy	("GeographyRegionID", "Year", "Month", "Day")
.sortBy	("Year", "Month", "Day", "GeographyRegionID")

```
.mode ("append")
```

▼
.csv("/DBTBL1")
.json("/DBTBL1")
.parquet("/DBTBL1")
.saveAsTable("/DBTBL1")

Answer:

Explanation:

```
df.write
```

▼	▼
.bucketBy	("*")
.format	("GeographyRegionID")
.partitionBy	("GeographyRegionID", "Year", "Month", "Day")
.sortBy	("Year", "Month", "Day", "GeographyRegionID")

```
.mode ("append")
```

▼
.csv("/DBTBL1")
.json("/DBTBL1")
.parquet("/DBTBL1")
.saveAsTable("/DBTBL1")



NEW QUESTION # 137

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