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The Microsoft DP-203 practice material of PracticeMaterial came into existence after consultation with many professionals and getting their positive reviews. The majority of aspirants are office professionals, and we recognize that you don't have enough time to prepare for the Microsoft DP-203 Certification Exam. As a result, several versions of the Data Engineering on Microsoft Azure (DP-203) exam questions will be beneficial to you.

Exam DP-203: Data Engineering on Microsoft Azure

Candidates for this exam should have subject matter expertise integrating, transforming, and consolidating data from various structured and unstructured data systems into a structure that is suitable for building analytics solutions.

Azure Data Engineers help stakeholders understand the data through exploration, and they build and maintain secure and compliant data processing pipelines by using different tools and techniques. These professionals use various Azure data services and languages to store and produce cleansed and enhanced datasets for analysis.

Azure Data Engineers also help ensure that data pipelines and data stores are high-performing, efficient, organized, and reliable, given a set of business requirements and constraints. They deal with unanticipated issues swiftly, and they minimize data loss. They also design, implement, monitor, and optimize data platforms to meet the data pipelines needs.

A candidate for this exam must have strong knowledge of data processing languages such as SQL, Python, or Scala, and they need to understand parallel processing and data architecture patterns.

Part of the requirements for: Microsoft Certified: Azure Data Engineer Associate

Download exam skills outline

Microsoft Data Engineering on Microsoft Azure Sample Questions (Q241-

Q246):

NEW QUESTION # 241

You are developing a solution using a Lambda architecture on Microsoft Azure.

The data at test layer must meet the following requirements:

Data storage:

- * Serve as a repository (or high volumes of large files in various formats).
- * Implement optimized storage for big data analytics workloads.
- * Ensure that data can be organized using a hierarchical structure.

Batch processing:

- * Use a managed solution for in-memory computation processing.
- * Natively support Scala, Python, and R programming languages.
- * Provide the ability to resize and terminate the cluster automatically.

Analytical data store:

- * Support parallel processing.
- * Use columnar storage.
- * Support SQL-based languages.

You need to identify the correct technologies to build the Lambda architecture.

Which technologies should you use? To answer, select the appropriate options in the answer area NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Reference:

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

<https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/batch-processing>

<https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-overview-what-is>

NEW QUESTION # 242

You have an Azure Data Lake Storage account named account1.

You use an Azure Synapse Analytics serverless SQL pool to access sales data stored in account1.

You need to create a bar chart that displays sales by product. The solution must minimize development effort.

In which order should you perform the actions? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order

Answer:

Explanation:

Explanation:

To create a bar chart that displays sales by product while minimizing development effort, follow these steps in the correct order:

Correct Order

- * Create a SQL script by using Synapse Studio.
- * Start by writing a SQL query in Synapse Studio that retrieves the sales by product data from the data stored in Azure Data Lake.
- * Add a SELECT statement that will return the sales by product data.
- * Write the query in the SQL script, such as:

sql

Copy

```
SELECT ProductName, SUM(SalesAmount) AS TotalSales
FROM OPENROWSET(
    BULK 'https://account1.dfs.core.windows.net/salesdata/',
    FORMAT='CSV',
    DATA_SOURCE='MyDataSource'
) AS SalesData
GROUP BY ProductName
ORDER BY TotalSales DESC;
```

- * Execute the script.
- * Run the SQL script to retrieve the data and ensure it returns the correct results.
- * Switch to the Chart view.

- * In Synapse Studio, switch to the Chart view to visualize the query results.
- * Modify the Chart settings.
- * Customize the chart settings to display a bar chart with "ProductName" on the x-axis and "TotalSales" on the y-axis.

Explanation:

- * The sequence ensures that you first retrieve the data correctly, verify it by executing the query, and then switch to the Chart view to visualize the data with minimal development effort.

NEW QUESTION # 243

You need to implement an Azure Synapse Analytics database object for storing the sales transactions data. The solution must meet the sales transaction dataset requirements.

What solution must meet the sales transaction dataset requirements.

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

NOTE: Each correct selection is worth one point.

☐

Answer:

Explanation:

☐ Explanation

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

☐

Box 1: Create table

Scenario: Load the sales transaction dataset to Azure Synapse Analytics Box 2: RANGE RIGHT FOR VALUES Scenario:

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.

RANGE RIGHT: Specifies the boundary value belongs to the partition on the right (higher values).

FOR VALUES (boundary_value [,...n]): Specifies the boundary values for the partition.

Scenario: Load the sales transaction dataset to Azure Synapse Analytics.

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.

Reference:

<https://docs.microsoft.com/en-us/sql/t-sql/statements/create-table-azure-sql-data-warehouse>

NEW QUESTION # 244

You are developing an application that uses Azure Data Lake Storage Gen 2.

You need to recommend a solution to grant permissions to a specific application for a limited time period.

What should you include in the recommendation?

- A. shared access signatures (SAS)
- B. Azure Active Directory (Azure AD) identities
- C. account keys
- D. role assignments

Answer: A

Explanation:

A shared access signature (SAS) provides secure delegated access to resources in your storage account. With a SAS, you have granular control over how a client can access your data. For example:

What resources the client may access.

What permissions they have to those resources.

How long the SAS is valid.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-sas-overview>

You configure version control for an Azure Data Factory instance as 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.

Explanation:

<https://docs.microsoft.com/en-us/azure/data-factory/source-control>

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