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Microsoft DP-203 Exam Tests the candidates' knowledge of data engineering principles, data storage options on Azure, data processing using Azure services, data transformation using Azure Databricks, and data integration using Azure Data Factory. DP-203 exam also covers topics such as data ingestion using Azure Stream Analytics, data orchestration using Azure Synapse Analytics, and data security and compliance.

Microsoft DP-203: Data Engineering on Microsoft Azure exam is an important certification for professionals working in the field of data engineering. It tests the candidate's skills and knowledge in designing and implementing data solutions using Azure services. Candidates can prepare for the exam by taking the official Microsoft training course or by using study materials available online. Upon passing the exam, candidates will earn the Microsoft Certified: Azure Data Engineer Associate certification, which can lead to better job opportunities and higher salaries.

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Microsoft Data Engineering on Microsoft Azure Sample Questions (Q279-Q284):

NEW QUESTION # 279

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.

☐

Answer:

Explanation:

☐

NEW QUESTION # 280

You need to implement an Azure Databricks cluster that automatically connects to Azure Data Lake Storage Gen2 by using Azure Active Directory (Azure AD) integration.

How should you configure the new cluster? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

☐

Answer:

Explanation:

☐

Explanation:

☐

Box 1: High Concurrency

Enable Azure Data Lake Storage credential passthrough for a high-concurrency cluster.

Incorrect:

Support for Azure Data Lake Storage credential passthrough on standard clusters is in Public Preview.

Standard clusters with credential passthrough are supported on Databricks Runtime 5.5 and above and are limited to a single user.

Box 2: Azure Data Lake Storage Gen1 Credential Passthrough

You can authenticate automatically to Azure Data Lake Storage Gen1 and Azure Data Lake Storage Gen2 from Azure Databricks clusters using the same Azure Active Directory (Azure AD) identity that you use to log into Azure Databricks. When you enable your cluster for Azure Data Lake Storage credential passthrough, commands that you run on that cluster can read and write data in Azure Data Lake Storage without requiring you to configure service principal credentials for access to storage.

References:

<https://docs.azuredatabricks.net/spark/latest/data-sources/azure/adls-passthrough.html>

NEW QUESTION # 281

You have an Azure subscription that contains an Azure Synapse Analytics dedicated SQL pool named Pool1.

Pool1 receives new data once every 24 hours.

You have the following function.

You have the following query.

The query is executed once every 15 minutes and the @parameter value is set to the current date.

You need to minimize the time it takes for the query to return results.

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

NOTE: Each correct selection is worth one point.

- A. Change the table distribution to replicate.
- **B. Convert the avg_c column into a calculated column.**
- C. Create an index on the avg_f column.
- D. Create an index on the sensorid column.
- **E. Enable result set caching.**

Answer: B,E

Explanation:

<https://learn.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/performance-tuning-result-set-caching>

NEW QUESTION # 282

You have an Azure subscription that contains an Azure Synapse Analytics account. The account is integrated with an Azure Repos repository named Repo1 and contains a pipeline named Pipeline1. Repo1 contains the branches shown in the following table.

From featuredev, you develop and test changes to Pipeline1. You need to publish the changes. What should you do first?

- A. Switch to live mode.
- **B. From featuredev, create a pull request.**
- C. Add a Publish_config.json file to the root folder of the collaboration branch.
- D. From main, create a pull request.

Answer: B

NEW QUESTION # 283

You have an Azure Synapse Analytics dedicated SQL pool.

You need to create a table named FactInternetSales that will be a large fact table in a dimensional model.

FactInternetSales will contain 100 million rows and two columns named SalesAmount and OrderQuantity.

Queries executed on FactInternetSales will aggregate the values in SalesAmount and OrderQuantity from the last year for a specific product. The solution must minimize the data size and query execution time.

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

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

Box 1: (CLUSTERED COLUMNSTORE INDEX

CLUSTERED COLUMNSTORE INDEX

Columnstore indexes are the standard for storing and querying large data warehousing fact tables. This index uses column-based data storage and query processing to achieve gains up to 10 times the query performance in your data warehouse over traditional row-oriented storage. You can also achieve gains up to 10 times the data compression over the uncompressed data size. Beginning with SQL Server 2016 (13.x) SP1, columnstore indexes enable operational analytics: the ability to run performant real-time analytics on a transactional workload.

Note: Clustered columnstore index

A clustered columnstore index is the physical storage for the entire table.

To reduce fragmentation of the column segments and improve performance, the columnstore index might store some data temporarily into a clustered index called a deltastore and a B-tree list of IDs for deleted rows.

The deltastore operations are handled behind the scenes. To return the correct query results, the clustered columnstore index combines query results from both the columnstore and the deltastore.

Box 2: HASH([ProductKey])

A hash distributed table distributes rows based on the value in the distribution column. A hash distributed table is designed to achieve

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

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