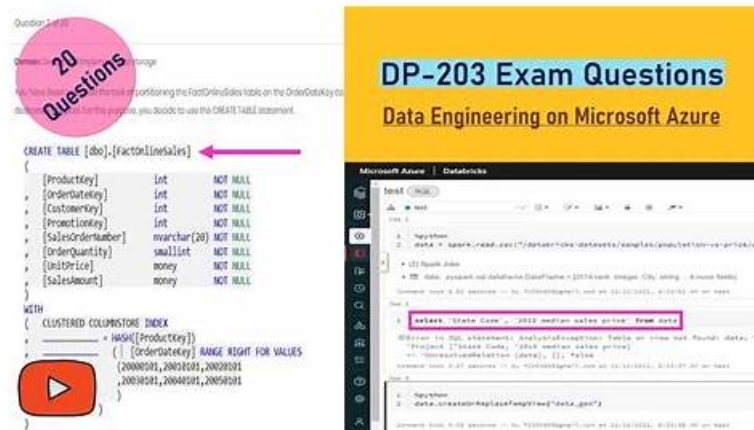


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Microsoft Data Engineering on Microsoft Azure Sample Questions (Q205-Q210):

NEW QUESTION # 205

You have an Azure subscription that contains an Azure Databricks workspace. The workspace contains a notebook named Notebook1. In Notebook1, you create an Apache Spark DataFrame named df_sales that contains the following columns:

- * Customer
- * Salesperson
- * Region
- * Amount

You need to identify the three top performing salespersons by amount for a region named HQ.

How should you complete the query? To answer, drag the appropriate values to the correct targets. Each value 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.

Answer:

Explanation:

□ Explanation:

□

NEW QUESTION # 206

You have an Azure Data Lake Storage Gen2 container.

Data is ingested into the container, and then transformed by a data integration application. The data is NOT modified after that.

Users can read files in the container but cannot modify the files.

You need to design a data archiving solution that meets the following requirements:

New data is accessed frequently and must be available as quickly as possible.

Data that is older than five years is accessed infrequently but must be available within one second when requested.

Data that is older than seven years is NOT accessed. After seven years, the data must be persisted at the lowest cost possible.

Costs must be minimized while maintaining the required availability.

How should you manage the data? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point

□

Answer:

Explanation:

□ Explanation

□

Box 1: Move to cool storage

Box 2: Move to archive storage

Archive - Optimized for storing data that is rarely accessed and stored for at least 180 days with flexible latency requirements, on the order of hours.

The following table shows a comparison of premium performance block blob storage, and the hot, cool, and archive access tiers.

□ Reference:

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

Box 1: Replicated

Replicated tables are ideal for small star-schema dimension tables, because the fact table is often distributed on a column that is not compatible with the connected dimension tables. If this case applies to your schema, consider changing small dimension tables currently implemented as round-robin to replicated.

Box 2: Replicated

Box 3: Replicated

Box 4: Hash-distributed

For Fact tables use hash-distribution with clustered columnstore index. Performance improves when two hash tables are joined on the same distribution column.

Reference:

<https://azure.microsoft.com/en-us/updates/reduce-data-movement-and-make-your-queries-more-efficient-with-th>

<https://azure.microsoft.com/en-us/blog/replicated-tables-now-generally-available-in-azure-sql-data-warehouse/>

NEW QUESTION # 207

You have an enterprise data warehouse in Azure Synapse Analytics.

Using PolyBase, you create an external table named [Ext].[Items] to query Parquet files stored in Azure Data Lake Storage Gen2 without importing the data to the data warehouse.

The external table has three columns.

You discover that the Parquet files have a fourth column named ItemID.

Which command should you run to add the ItemID column to the external table?

□

- A. Option B
- **B. Option C**
- C. Option D
- D. Option A

Answer: B

Explanation:

<https://docs.microsoft.com/en-us/sql/t-sql/statements/create-external-table-transact-sql>

NEW QUESTION # 208

You are planning the deployment of Azure Data Lake Storage Gen2.

You have the following two reports that will access the data lake:

Report1: Reads three columns from a file that contains 50 columns.

Report2: Queries a single record based on a timestamp.

You need to recommend in which format to store the data in the data lake to support the reports. The solution must minimize read times.

What should you recommend for each report? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

□ Explanation:

□ Report1: CSV

CSV: The destination writes records as delimited data.

Report2: AVRO

AVRO supports timestamps.

Not Parquet, TSV: Not options for Azure Data Lake Storage Gen2.

Reference:

<https://streamsets.com/documentation/datacollector/latest/help/datacollector/UserGuide/Destinations/ADLS-G2-D.html>

NEW QUESTION # 209

You are designing a slowly changing dimension (SCD) for supplier data in an Azure Synapse Analytics dedicated SQL pool.

You plan to keep a record of changes to the available fields.

The supplier data contains the following columns.

□ Which three additional columns should you add to the data to create a Type 2 SCD? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. effective start date
- B. surrogate primary key
- C. foreign key
- D. effective end date
- E. business key
- F. last modified date

Answer: A,D,E

Explanation:

Reference:

<https://docs.microsoft.com/en-us/sql/integration-services/data-flow/transformations/slowly-changing-dimension->

NEW QUESTION # 210

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