

Microsoft

DP-203 Exam

Data Engineering on Microsoft Azure



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Version: 5.0

Question: 1

DRAG DROP

You need to ensure that the Twitter feed data can be analyzed in the dedicated SQL pool. The solution must meet the customer sentiment analytics requirements.

Which three Transaction-SQL DDL commands should you run in sequence? To answer, move the appropriate commands from the list of commands to the answer area and arrange them in the correct order.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Commands

Answer Area

CREATE EXTERNAL DATA SOURCE

CREATE EXTERNAL FILE FORMAT

CREATE EXTERNAL TABLE

CREATE EXTERNAL TABLE AS SELECT

CREATE DATABASE SCOPED CREDENTIAL

Answer:

CREATE EXTERNAL DATA SOURCE

CREATE EXTERNAL FILE FORMAT

CREATE EXTERNAL TABLE AS SELECT

Explanation:

Scenario: 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.

Box 1: CREATE EXTERNAL DATA SOURCE

External data sources are used to connect to storage accounts.

Box 2: CREATE EXTERNAL FILE FORMAT

CREATE EXTERNAL FILE FORMAT creates an external file format object that defines external data stored in Azure Blob Storage or Azure Data Lake Storage. Creating an external file format is a prerequisite for creating an external table.

Box 3: CREATE EXTERNAL TABLE AS SELECT

When used in conjunction with the CREATE TABLE AS SELECT statement, selecting from an external table imports data into a table within the SQL pool. In addition to the COPY statement, external tables are useful for loading data.

Reference:

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

Question: 2

HOTSPOT

You need to design a data storage structure for the product sales transactions. The solution must meet the sales transaction dataset requirements.

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

NOTE: Each correct selection is worth one point.

Answer Area

Table type to store the product sales transactions: Hash, Round-robin, Replicated

When creating the table for sales transactions: Configure a clustered index. Set the distribution column to product ID. Set the distribution column to the sales date.

Answer:

Explanation:

1. Replicated
2. Set the distribution column to product ID.

Question: 3

HOTSPOT

You need to design the partitions for the product sales transactions. The solution must meet the sales transaction dataset requirements.

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

NOTE: Each correct selection is worth one point.

Partition product sales transactions data by:

▼
Sales date
Product ID
Promotion ID

Store product sales transactions data in:

▼
An Azure Synapse Analytics dedicated SQL pool
An Azure Synapse Analytics serverless SQL pool
An Azure Data Lake Storage Gen2 account linked to an Azure Synapse Analytics workspace

Answer:

Partition product sales transactions data by:

▼
Sales date
Product ID
Promotion ID

Store product sales transactions data in:

▼
An Azure Synapse Analytics dedicated SQL pool
An Azure Synapse Analytics serverless SQL pool
An Azure Data Lake Storage Gen2 account linked to an Azure Synapse Analytics workspace

Explanation:

Box 1: Sales date

Scenario: Contoso requirements for data integration include:

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.

Box 2: An Azure Synapse Analytics Dedicated SQL pool

Scenario: Contoso requirements for data integration include:

Ensure that data storage costs and performance are predictable.

The size of a dedicated SQL pool (formerly SQL DW) is determined by Data Warehousing Units (DWU).

Dedicated SQL pool (formerly SQL DW) stores data in relational tables with columnar storage. This format significantly reduces the data storage costs, and improves query performance.

Synapse analytics dedicated sql pool

Reference:

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

Question: 4

HOTSPOT

You need to implement an Azure Synapse Analytics database object for storing the sales transactions dat

a. 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 Area

Transact-SQL DDL command to use:

CREATE EXTERNAL TABLE
CREATE TABLE
CREATE VIEW

Partitioning option to use in the WITH clause of the DDL statement:

FORMAT_OPTIONS
FORMAT_TYPE
RANGE LEFT FOR VALUES
RANGE RIGHT FOR VALUES

Answer:

Explanation:

1. Create Table
2. Range Right for values

Question: 5

You need to integrate the on-premises data sources and Azure Synapse Analytics. The solution must meet the data integration requirements.

Which type of integration runtime should you use?

- A. Azure-SSIS integration runtime
- B. self-hosted integration runtime
- C. Azure integration runtime

Answer: C

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