DP-203 Test Dumps Free - 2025 DP-203: Data Engineering on Microsoft Azure First-grade Actual Tests

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To pass the DP-203 exam, candidates must demonstrate their ability to design and implement data solutions on Azure by answering a series of multiple-choice questions and scenario-based questions. DP-203 exam is timed and lasts 150 minutes, and candidates must score at least 700 out of 1000 to pass.

Microsoft DP-203 exam is a great opportunity for data engineers to validate their skills and knowledge in the field of data engineering on the Azure platform. DP-203 Exam covers a wide range of topics, including designing and implementing Azure Data Factory, Azure Stream Analytics, Azure Databricks, and Azure Synapse Analytics. It also covers data storage solutions such as Azure Blob Storage, Azure Data Lake Storage, and Azure Cosmos DB.

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Our Microsoft DP-203 practice exam simulator mirrors the DP-203 exam experience, so you know what to anticipate on DP-203 certification exam day. Our Data Engineering on Microsoft Azure (DP-203) practice test software features various question styles and levels, so you can customize your Microsoft DP-203 exam questions preparation to meet your needs.

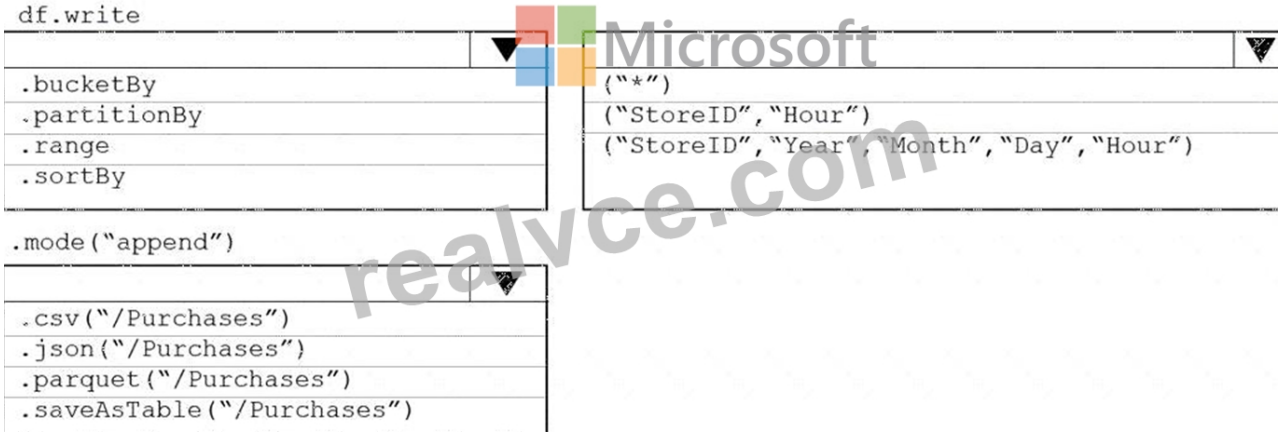
Microsoft DP-203 Certification Exam is a single exam that consists of around 40-60 multiple-choice questions. The time allotted for the exam is 150 minutes, and the passing score is 700 out of 1000. DP-203 exam covers a range of topics, including implementing data storage solutions, implementing data processing solutions, and implementing data security solutions. Candidates must have a solid understanding of Azure services and be able to demonstrate their ability to design and implement solutions using these services.

Microsoft Data Engineering on Microsoft Azure Sample Questions (Q325-Q330):

NEW QUESTION # 325
You plan to develop a dataset named Purchases by using Azure databricks Purchases will contain the following columns:
* ProductID
* ItemPrice
* lineTotal
* Quantity
* StorelD
* Minute
* Month
* Hour

* Year
* Day

You need to store the data to support hourly incremental load pipelines that will vary for each StoreID. the solution must minimize storage costs. How should you complete the rode? To answer, select the appropriate options In the answer area.
NOTE: Each correct selection is worth one point.



Answer:

Explanation:

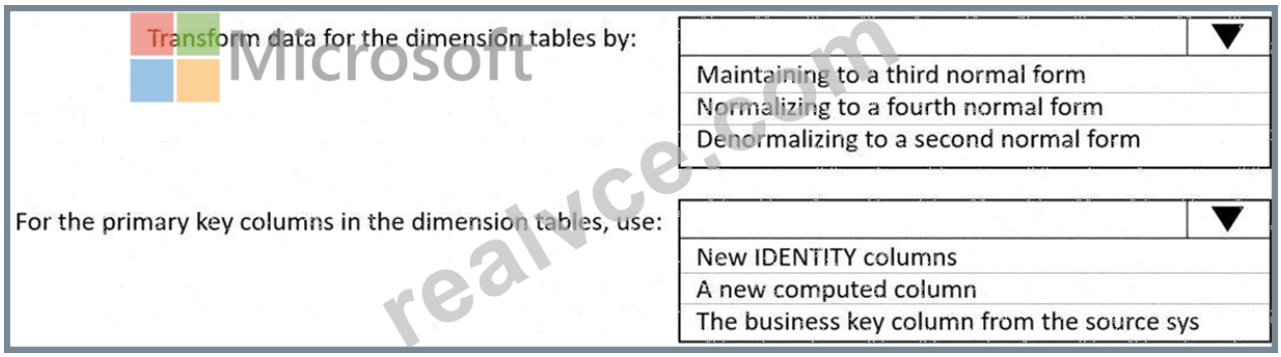
Explanation

Answer Area

Box 1: partitionBy
We should overwrite at the partition level.
Example:
df.write.partitionBy("y","m","d")
mode(SaveMode.Append)
parquet("/data/hive/warehouse/db_name.db/" + tableName)
Box 2: ("StoreID", "Year", "Month", "Day", "Hour", "StoreID")
Box 3: parquet("/Purchases")
Reference:
https://intellipaat.com/community/11744/how-to-partition-and-write-dataframe-in-spark-without-deleting-partitio

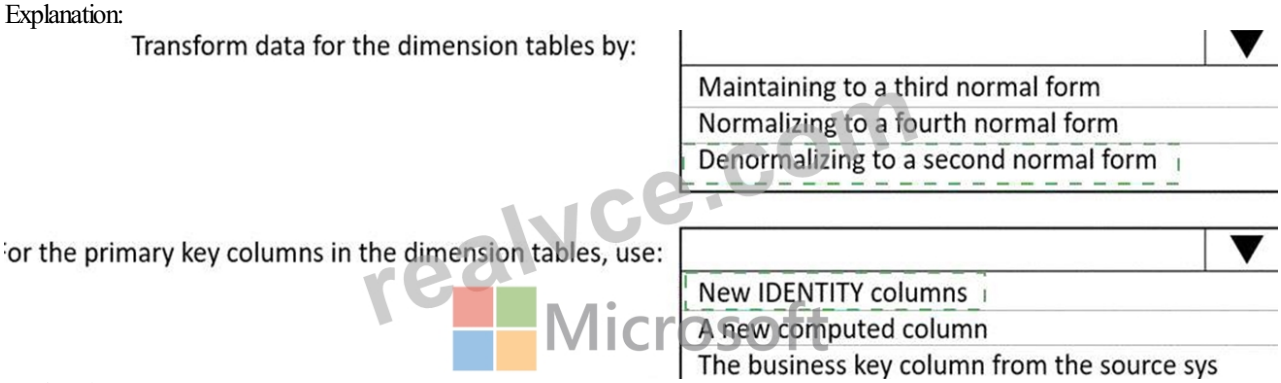
NEW QUESTION # 326

You have a Microsoft SQL Server database that uses a third normal form schema.
You plan to migrate the data in the database to a star schema in an Azure Synapse Analytics dedicated SQI pool.
You need to design the dimension tables. The solution must optimize read operations.
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.

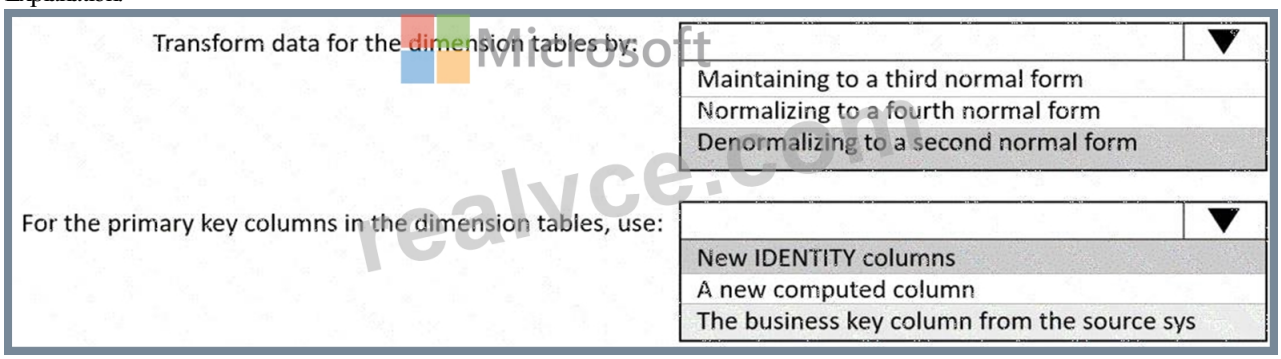


Answer:

Explanation:



Explanation:



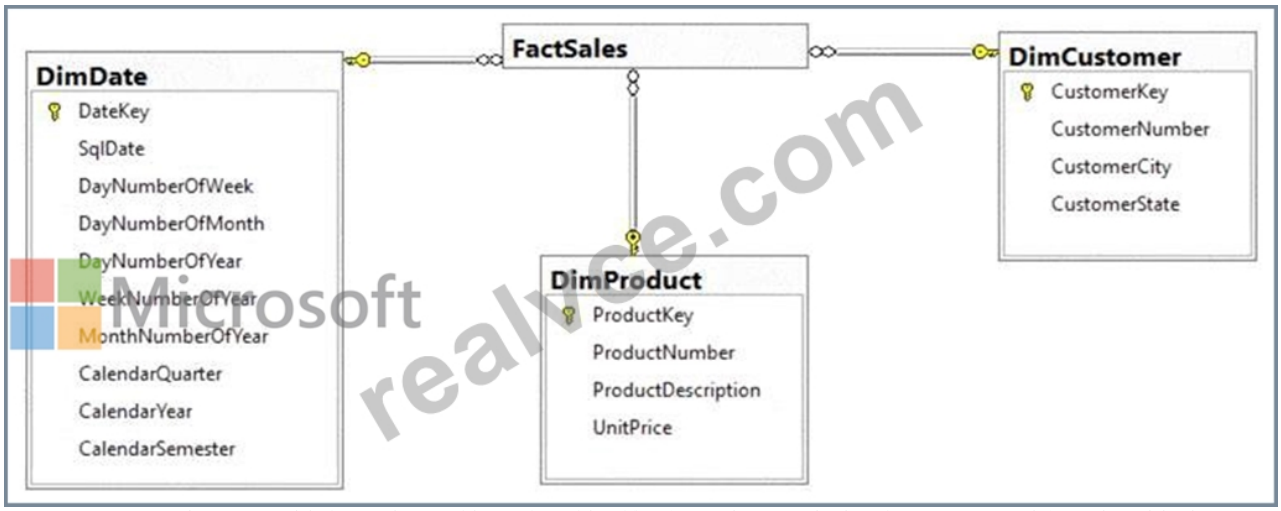
Box 1: Denormalize to a second normal form

Denormalization is the process of transforming higher normal forms to lower normal forms via storing the join of higher normal form relations as a base relation. Denormalization increases the performance in data retrieval at cost of bringing update anomalies to a database.

Box 2: New identity columns

The collapsing relations strategy can be used in this step to collapse classification entities into component entities to obtain #at dimension tables with single-part keys that connect directly to the fact table. The single- part key is a surrogate key generated to ensure it remains unique over time.

Example:



Note: A surrogate key on a table is a column with a unique identifier for each row. The key is not generated from the table data. Data modelers like to create surrogate keys on their tables when they design data warehouse models. You can use the IDENTITY property to achieve this goal simply and effectively without affecting load performance.
Reference:
https://www.mssqltips.com/sqlservertip/5614/explore-the-role-of-normal-forms-in-dimensional-modeling/
https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables- identity

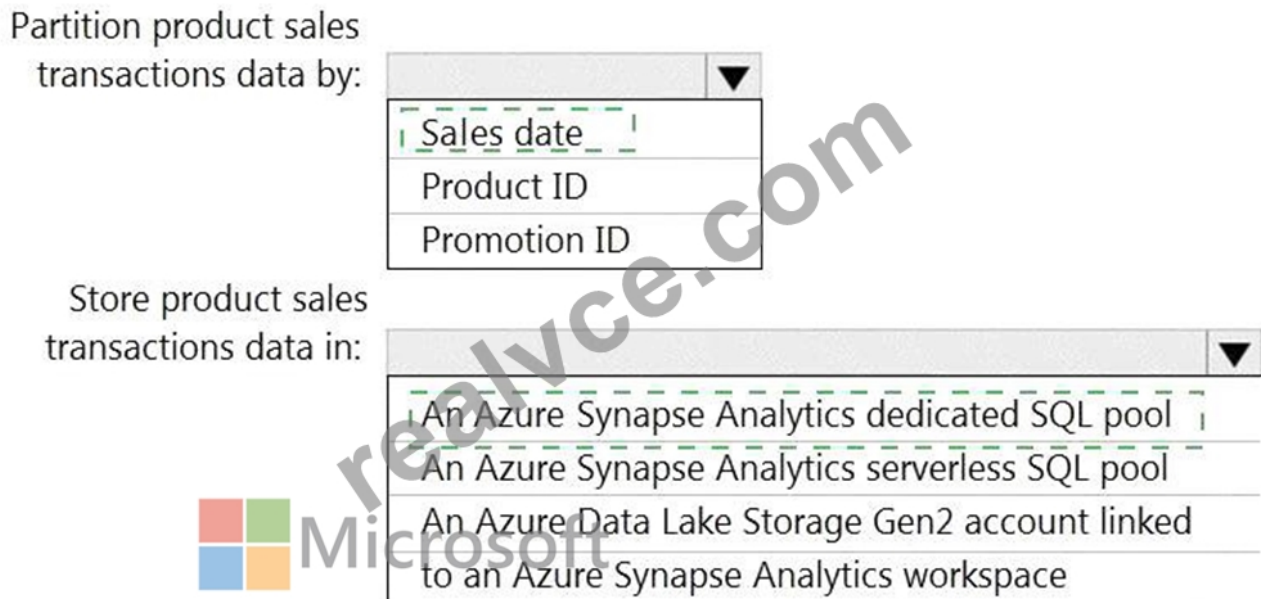
NEW QUESTION # 327
You need to design the partitions for the product sales transactions. The solution must meet the sales transaction dataset requirements.
What should you include in the solution? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Partition product sales transactions data by:
- Sales date
- Product ID
- Promotion ID

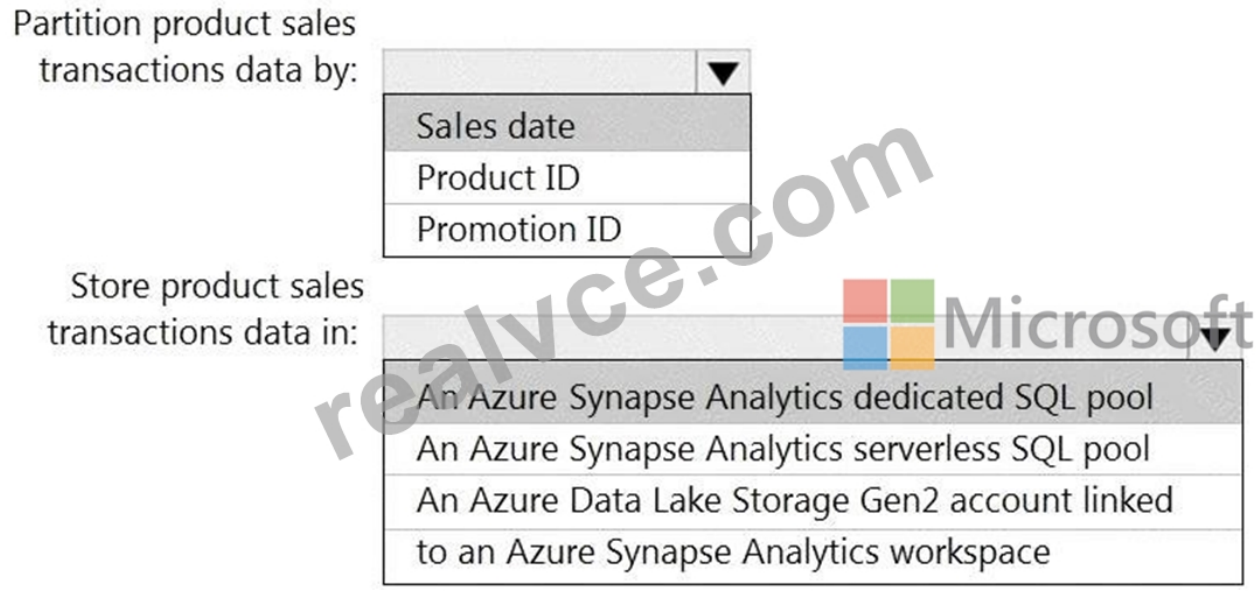
Store product sales transactions data in:
- An Azure Synapse Analytics dedicated SQL pool
- An Azure Synapse Analytics serverless SQL pool
- An Azure Data Lake Storage Gen2 account linked to an Azure Synapse Analytics workspace

Answer:

Explanation:



Explanation:



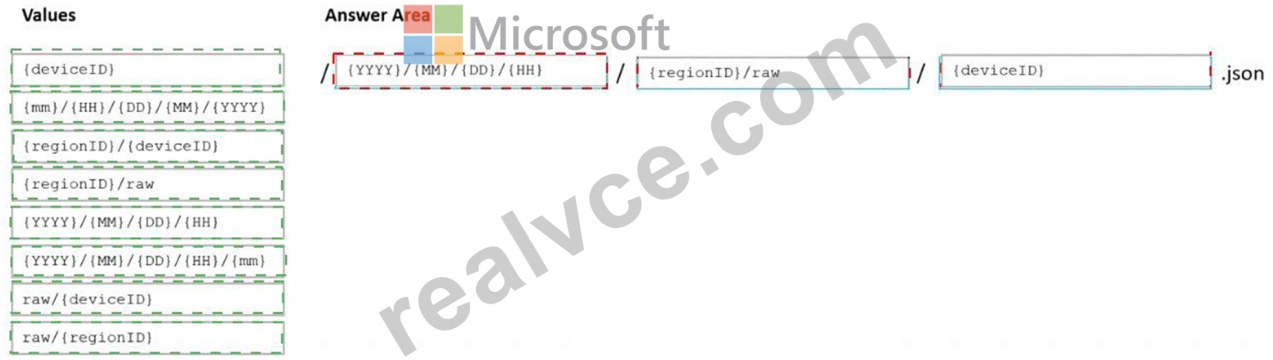
Box 1: Sales date
Scenario: Contoso requirements for data integration include:
* Partition data that contains sales transaction records. Partitions must be designed to provide efficient loads by month. Boundary values must belong to the partition on the right.
Box 2: An Azure Synapse Analytics Dedicated 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-hat-is

NEW QUESTION # 328
You are designing an Azure Data Lake Storage Gen2 structure for telemetry data from 25 million devices distributed across seven key geographical regions. Each minute, the devices will send a JSON payload of metrics to Azure Event Hubs.
You need to recommend a folder structure for the data. The solution must meet the following requirements:
* Data engineers from each region must be able to build their own pipelines for the data of their respective region only.
* The data must be processed at least once every 15 minutes for inclusion in Azure Synapse Analytics serverless SQL pools.
How should you recommend completing the structure? 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.
NOTE: Each correct selection is worth one point.

Answer:

Explanation:



Explanation:
Box 1: {YYYY}/{MM}/{DD}/{HH}
Date Format [optional]: if the date token is used in the prefix path, you can select the date format in which your files are organized. Example: YYYY/MM/DD Time Format [optional]: if the time token is used in the prefix path, specify the time format in which your files are organized. Currently the only supported value is HH.
Box 2: {regionID}/raw
Data engineers from each region must be able to build their own pipelines for the data of their respective region only.
Box 3: {deviceID}
Reference:
https://github.com/paolosalvatori/StreamAnalyticsAzureDataLakeStore/blob/master/README.md

NEW QUESTION # 329
You have an Azure Data Lake Storage Gen2 container that contains 100 TB of data.
You need to ensure that the data in the container is available for read workloads in a secondary region if an outage occurs in the primary region. The solution must minimize costs.
Which type of data redundancy should you use?

- A. zone-redundant storage (ZRS)
- B. read-access geo-redundant storage (RA-GRS)
- C. geo-redundant storage (GRS)
- D. locally-redundant storage (LRS)

Answer: D

NEW QUESTION # 330
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