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DP-203

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Data Engineering on Microsoft Azure

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2025/2026
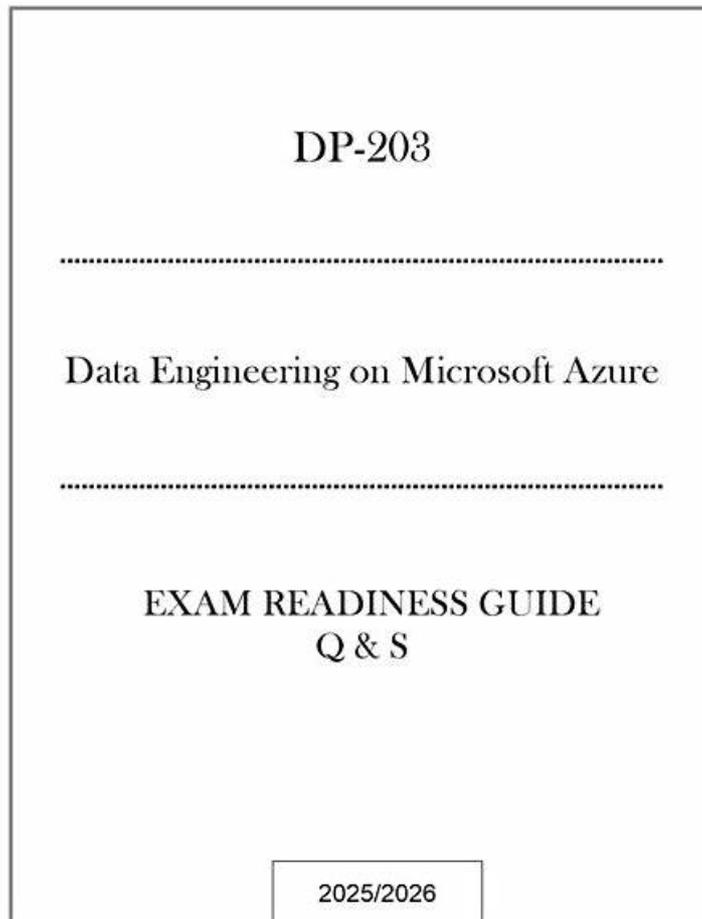
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Microsoft Data Engineering on Microsoft Azure Sample Questions (Q277-Q282):

NEW QUESTION # 277
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 integration runtime
- B. self-hosted integration runtime
- C. Azure-SSIS integration runtime

Answer: C

NEW QUESTION # 278
You have an on-premises data warehouse that includes the following fact tables. Both tables have the following columns: DateKey, ProductKey, RegionKey. There are 120 unique product keys and 65 unique region keys.

Table	Comments
Sales	The table is 600 GB in size. DateKey is used extensively in the WHERE clause in queries. ProductKey is used extensively in join operations. RegionKey is used for grouping. Severity-five percent of records relate to one of 40 regions.
Invoice	The table is 6 GB in size. DateKey and ProductKey are used extensively in the WHERE clause in queries. RegionKey is used for grouping.

Queries that use the data warehouse take a long time to complete.
You plan to migrate the solution to use Azure Synapse Analytics. You need to ensure that the Azure-based solution optimizes query performance and minimizes processing skew.
What should you recommend? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point

Table	Distribution type	Distribution column
Sales:	Hash-distributed / Round-robin	DateKey / ProductKey / RegionKey
Invoices:	Hash-distributed / Round-robin	DateKey / ProductKey / RegionKey

Answer:

Explanation:

Table	Distribution type	Distribution column
Sales:	Hash-distributed / Round-robin	DateKey / ProductKey / RegionKey
Invoices:	Hash-distributed / Round-robin	DateKey / ProductKey / RegionKey

Explanation

Table	Distribution type	Distribution column
Sales:	Hash-distributed / Round-robin	DateKey / **ProductKey** / RegionKey
Invoices:	Hash-distributed / **Round-robin**	DateKey / ProductKey / **RegionKey**

Box 1: Hash-distributed
Box 2: ProductKey
ProductKey is used extensively in joins.
Hash-distributed tables improve query performance on large fact tables.
Box 3: Round-robin
Box 4: RegionKey
Round-robin tables are useful for improving loading speed.
Consider using the round-robin distribution for your table in the following scenarios:
When getting started as a simple starting point since it is the default If there is no obvious joining key If there is not good candidate column for hash distributing the table If the table does not share a common join key with other tables If the join is less significant than other joins in the query When the table is a temporary staging table Note: A distributed table appears as a single table, but the rows are actually stored across 60 distributions. The rows are distributed with a hash or round-robin algorithm.
Reference:
https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-tables-distribute

NEW QUESTION # 279
You have an Azure subscription that contains the resources shown in the following table.

Name	Type	Description
ws1	Azure Synapse Analytics workspace	None
kv1	Azure Key Vault	None
UAMI1	User-assigned managed identity	Associated with ws1
sp1	Apache Spark pool in Azure Synapse Analytics	Associated with ws1

You need to ensure that you can Spark notebooks in ws1. The solution must ensure secrets from kv1 by using UAMI1. What should you do? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
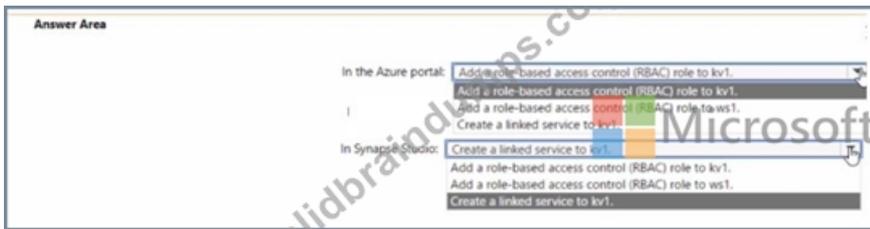
Answer:

Explanation:

NEW QUESTION # 280

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.

Architecture requirement	Technology
Data storage	▼
	Azure SQL Database
	Azure Blob Storage
	Azure Cosmos DB
	Azure Data Lake Store
Batch processing	▼
	HDInsight Spark
	HDInsight Hadoop
	Azure Databricks
	HDInsight Interactive Query
Analytical data store	▼
	HDInsight HBase
	Azure SQL Data Warehouse
	Azure Analysis Services
	Azure Cosmos DB

Answer:

Explanation:

Architecture requirement **Technology**

Data storage ▼

| Azure SQL Database |
| Azure Blob Storage |
| Azure Cosmos DB |
| Azure Data Lake Store |

Batch processing ▼

| HDInsight Spark |
| HDInsight Hadoop |
| Azure Databricks |
| HDInsight Interactive Query |

Analytical data store ▼

| HDInsight HBase |
| Azure SQL Data Warehouse |
| Azure Analysis Services |
| Azure Cosmos DB |

Explanation:

Architecture requirement **Technology**

Data storage ▼

| Azure SQL Database |
| Azure Blob Storage |
| Azure Cosmos DB |
| Azure Data Lake Store |

Batch processing ▼

| HDInsight Spark |
| HDInsight Hadoop |
| Azure Databricks |
| HDInsight Interactive Query |

Analytical data store ▼

| HDInsight HBase |
| Azure SQL Data Warehouse |
| Azure Analysis Services |
| Azure Cosmos DB |

Data storage: Azure Data Lake Store

A key mechanism that allows Azure Data Lake Storage Gen2 to provide file system performance at object storage scale and prices is the addition of a hierarchical namespace. This allows the collection of objects/files within an account to be organized into a hierarchy of directories and nested subdirectories in the same way that the file system on your computer is organized. With the hierarchical namespace enabled, a storage account becomes capable of providing the scalability and cost-effectiveness of object storage, with file system semantics that are familiar to analytics engines and frameworks.

Batch processing: HD Insight Spark

Aparch Spark is an open-source, parallel-processing framework that supports in-memory processing to boost the performance of big-data analysis applications.

HDInsight is a managed Hadoop service. Use it deploy and manage Hadoop clusters in Azure. For batch processing, you can use Spark, Hive, Hive LLAP, MapReduce.

Languages: R, Python, Java, Scala, SQL

Analytic data store: SQL Data Warehouse

SQL Data Warehouse is a cloud-based Enterprise Data Warehouse (EDW) that uses Massively Parallel Processing (MPP).

SQL Data Warehouse stores data into relational tables with columnar storage.

References:

https://docs.microsoft.com/en-us/azure/storage/blobs/data-lake-storage-namespace

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 # 281

From a website analytics system, you receive data extracts about user interactions such as downloads, link clicks, form submissions, and video plays.

The data contains the following columns.

Name	Sample value
Date	15 Jan 2021
EventCategory	Videos
EventAction	Play
EventLabel	Contoso Promotional
ChannelGrouping	Social
TotalEvents	150
UniqueEvents	120
SessionWithEvents	99

You need to design a star schema to support analytical queries of the data. The star schema will contain four tables including a date dimension.
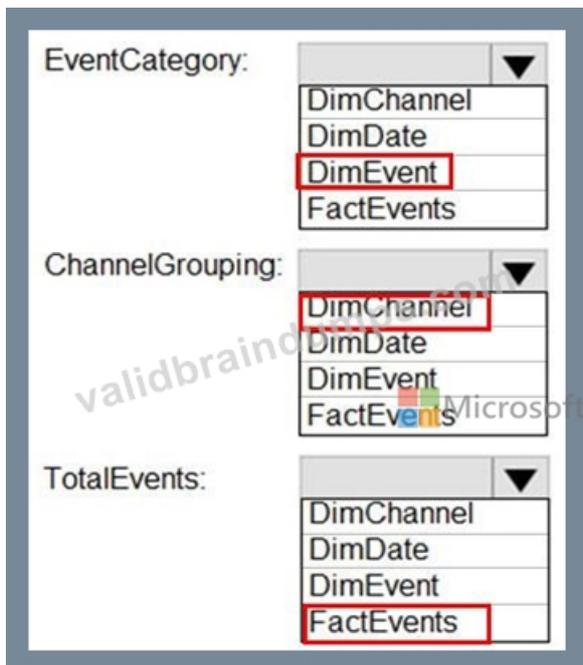
To which table should you add each column? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

EventCategory:
- DimChannel
- DimDate
- DimEvent
- FactEvents

ChannelGrouping:
- DimChannel
- DimDate
- DimEvent
- FactEvents

TotalEvents:
- DimChannel
- DimDate
- DimEvent
- FactEvents

Answer:

Explanation:

Reference:
https://docs.microsoft.com/en-us/power-bi/guidance/star-schema

NEW QUESTION # 282

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