

Data Engineering on Microsoft Azure

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$$M = \beta D + \beta L + \beta (D - L) = \beta D + \beta L + \beta D - \beta L = 3\beta D$$

Microsoft Data Platform (DP) is an exam for IT professionals who are responsible for designing and implementing data processing solutions that integrate with Microsoft platforms, applications, and services. Candidates prepare for this exam by taking the Microsoft Official Curriculum (MOC) course for the Azure Data Engineering on Microsoft Azure certification. The DP-203 exam tests your ability to design and implement data processing solutions on Azure in a cloud environment. You need to understand how to design and create data services with Azure Data Factory; how to create, manage and deploy data models using the Azure Data Catalog; and how to manage the lifecycle of a data solution using Azure Data Lake Analytics. **Microsoft DP-203 Dumps** Questions and Answers are prepared by experts and reviewed and approved by Microsoft. The test is based on the latest version of Microsoft Data Platform that includes SQL Server 2016, SQL Database, HDInsight, and Power BI. The questions test both technical skills and business knowledge so you need to have a good understanding of both areas in order to pass the test.

What is Microsoft DP-203 Certification

Microsoft DP-203 (Designing Data Platform Solutions on Microsoft Azure) certification is a great way to validate your hands-on experience with cloud platforms, data architecture, and database technologies. This exam is designed to determine the competency of candidates to design distributed data solutions for enterprise applications based on Azure technologies. Before you begin studying for this exam, there are a few terms that you should familiarize yourself with. First and foremost, you should understand the difference between Microsoft SQL Server, Microsoft SQL Database, and Microsoft Azure SQL Database. Exam objectives are associated with these products; therefore, it is important to know when you will be tested on each one. **Microsoft DP-203 Dumps** tests a candidate's knowledge of Microsoft technologies used for building a data platform and cloud environment. Microsoft DP-203 is a certification of data engineers. The certification exam is designed to test the skills of designing, deploying, and managing Microsoft HDInsight and Microsoft Azure SQL Data Warehouse clusters for business intelligence and analytics solutions.

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Microsoft DP-203 (Data Engineering on Microsoft Azure) Exam is a certification exam that tests the skills and knowledge of candidates in designing and implementing data solutions on Microsoft Azure. DP-203 exam is designed for data engineers who work with data storage, processing, and analysis on Azure. DP-203 Exam covers a range of topics such as data ingestion, transformation, storage, and processing using Azure services like Azure Data Factory, Azure Databricks, Azure Stream Analytics, and more.

Microsoft Data Engineering on Microsoft Azure Sample Questions (Q104-Q109):

NEW QUESTION # 104

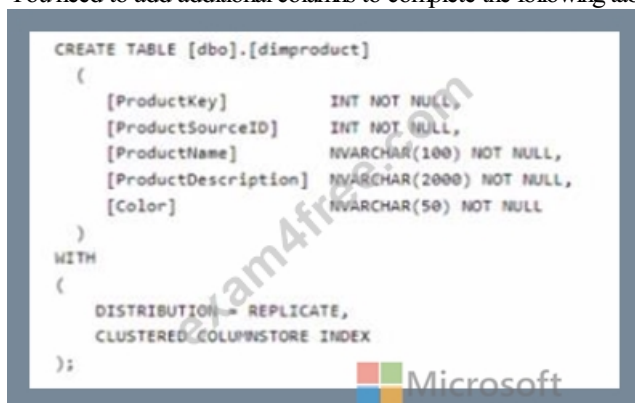
You are implementing a star schema in an Azure Synapse Analytics dedicated SQL pool.

You plan to create a table named DimProduct.

DimProduct must be a Type 3 slowly changing dimension (SCD) table that meets the following requirements:

- * The values in two columns named ProductKey and ProductSourceID will remain the same.
- * The values in three columns named ProductName, ProductDescription, and Color can change.

You need to add additional columns to complete the following table definition.



- A.
- B.
- C.
- D.
- E.

- F.



Answer: B,E,F

NEW QUESTION # 105

You use Azure Stream Analytics to receive Twitter data from Azure Event Hubs and to output the data to an Azure Blob storage account.

You need to output the count of tweets from the last five minutes every minute.

Which windowing function should you use?

- A. Tumbling
- B. Sliding
- C. Session
- D. Hopping

Answer: D

Explanation:

Hopping window functions hop forward in time by a fixed period. It may be easy to think of them as Tumbling windows that can overlap and be emitted more often than the window size. Events can belong to more than one Hopping window result set. To make a Hopping window the same as a Tumbling window, specify the hop size to be the same as the window size.

Reference:

<https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-window-functions>

NEW QUESTION # 106

You are building a database in an Azure Synapse Analytics serverless SQL pool.

You have data stored in Parquet files in an Azure Data Lake Storage Gen2 container.

Records are structured as shown in the following sample.

```
{
  "id": 123,
  "address_housenumber": "19c",
  "address_line": "Memory Lane",
  "applicant1_name": "Jane",
  "applicant2_name": "Dev"
}
```

The records contain two applicants at most.

You need to build a table that includes only the address fields.

How should you complete the Transact-SQL statement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

▼ applications

CREATE EXTERNAL TABLE

CREATE TABLE

CREATE VIEW

WITH (

LOCATION = 'applications/',

DATA_SOURCE = applications_ds,

FILE_FORMAT = applications_file_format

)

AS

SELECT id, [address_housenumber] as addresshousenumber, [address_line1] as addressline1

FROM

▼ (BULK 'https://contosol.dfs.core.windows.net/applications/year=*/*.parquet',

CROSS APPLY

OPENJSON

OPENROWSET

FORMAT='PARQUET') AS [r]

GO

Answer:

Explanation:

Answer Area

▼ applications

CREATE EXTERNAL TABLE

CREATE TABLE

CREATE VIEW

WITH (

LOCATION = 'applications/',

DATA_SOURCE = applications_ds,

FILE_FORMAT = applications_file_format

)

AS

SELECT id, [address_housenumber] as addresshousenumber, [address_line1] as addressline1

FROM

▼ (BULK 'https://contosol.dfs.core.windows.net/applications/year=*/*.parquet',

CROSS APPLY

OPENJSON

OPENROWSET

FORMAT='PARQUET') AS [r]

GO

Reference:

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

NEW QUESTION # 107

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:

EventCategory: ▼

DimChannel
DimDate
DimEvent
FactEvents

ChannelGrouping: ▼

DimChannel
DimDate
DimEvent
FactEvents

TotalEvents: ▼

DimChannel
DimDate
DimEvent
FactEvents

Explanation

EventCategory: ▼

DimChannel
DimDate
DimEvent
FactEvents

ChannelGrouping: ▼

DimChannel
DimDate
DimEvent
FactEvents

TotalEvents: ▼

DimChannel
DimDate
DimEvent
FactEvents

Table Description automatically generated

Box 1: DimEvent

Box 2: DimChannel

Box 3: FactEvents

Fact tables store observations or events, and can be sales orders, stock balances, exchange rates, temperatures, etc Reference:
<https://docs.microsoft.com/en-us/power-bi/guidance/star-schema>

NEW QUESTION # 108

You have an Azure Data Lake Storage Gen2 account named adls2 that is protected by a virtual network.

You are designing a SQL pool in Azure Synapse that will use adls2 as a source.

What should you use to authenticate to adls2?

- A. a shared key
- B. a managed identity
- C. a shared access signature (SAS)
- D. an Azure Active Directory (Azure AD) user

Answer: B

Explanation:

Explanation

Managed identity for Azure resources is a feature of Azure Active Directory. The feature provides Azure services with an automatically managed identity in Azure AD. You can use the Managed Identity capability to authenticate to any service that support Azure AD authentication.

Managed Identity authentication is required when your storage account is attached to a VNet.

Reference:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/quickstart-bulk-load-copy-tsql-exa>

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