DP-203 Exam Reviews - DP-203 Test Questions Answers

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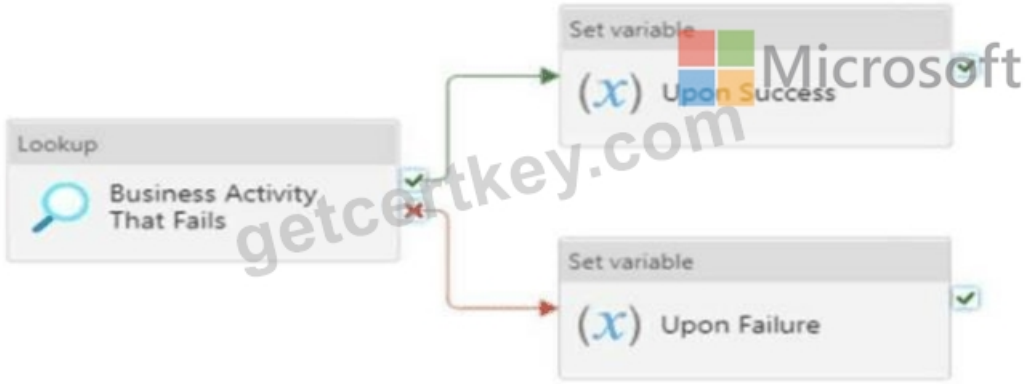
To take the DP-203 exam, candidates must have a good understanding of data engineering concepts, such as data modeling, data integration, and data transformation. They should also have experience working with big data technologies, such as Hadoop, Spark, and NoSQL databases. Candidates should be familiar with programming languages such as Python, SQL, and Scala. DP-203 exam consists of multiple-choice questions and performance-based tasks that require candidates to demonstrate their skills in designing and implementing data pipelines, managing data storage, and analyzing data using Azure services. Passing the DP-203 Exam provides candidates with a valuable certification that can enhance their career prospects in the data engineering field.

The DP-203 exam covers a wide range of topics related to data engineering on Azure, including data storage solutions, data processing, data integration, data security, and data monitoring and optimization. Candidates need to demonstrate their understanding of various Azure services and tools for data processing, such as Azure Data Factory, Azure Databricks, Azure HDInsight, and Azure Synapse Analytics.

Microsoft Data Engineering on Microsoft Azure Sample Questions (Q70-Q75):

NEW QUESTION # 70
You have the Azure Synapse Analytics pipeline shown in the following exhibit.



You need to add a set variable activity to the pipeline to ensure that after the pipeline's completion, the status of the pipeline is always successful.
What should you configure for the set variable activity?

- A. a failure dependency on the Upon Failure activity
- B. a skipped dependency on the Upon Success activity
- C. a success dependency on the Business Activity That Fails activity
- D. a skipped dependency on the Upon Failure activity

Answer: C

Explanation:
A failure dependency means that the activity will run only if the previous activity fails. In this case, setting a failure dependency on the Upon Failure activity will ensure that the set variable activity will run after the pipeline fails and set the status of the pipeline to successful.

NEW QUESTION # 71
You need to implement a Type 3 slowly changing dimension (SCD) for product category data in an Azure Synapse Analytics dedicated SQL pool.
You have a table that was created by using the following Transact-SQL statement.

```
CREATE TABLE [DBO].[DimProduct] (
[ProductKey] [int] IDENTITY(1,1) NOT NULL
[ProductSourceID] [int] NOT NULL,
[ProductName] [nvarchar] (100) NULL,
[Color] [nvarchar] (15) NULL,
[SellStartDate] [date] NOT NULL,
[SellEndDate] [date] NULL,
[RowInsertedDateTime] [datetime] NOT NULL
[RowUpdatedDateTime] [datetime] NOT NULL,
[ETLAuditID] [int] NOT NULL
)
```

Which two columns should you add to the table? Each correct answer presents part of the solution.
NOTE: Each correct selection is worth one point.

- A. [EffectiveScarcDate] [datetime] NOT NULL,
- B. [OriginalProduccCacegory] [nvarchar] (100) NOT NULL,
- C. [ProductCategory] [nvarchar] (100) NOT NULL,
- D. [EffectiveEndDace] [dacecime] NULL,
- E. [CurrentProduccCacegory] [nvarchar] (100) NOT NULL,

Answer: B,E

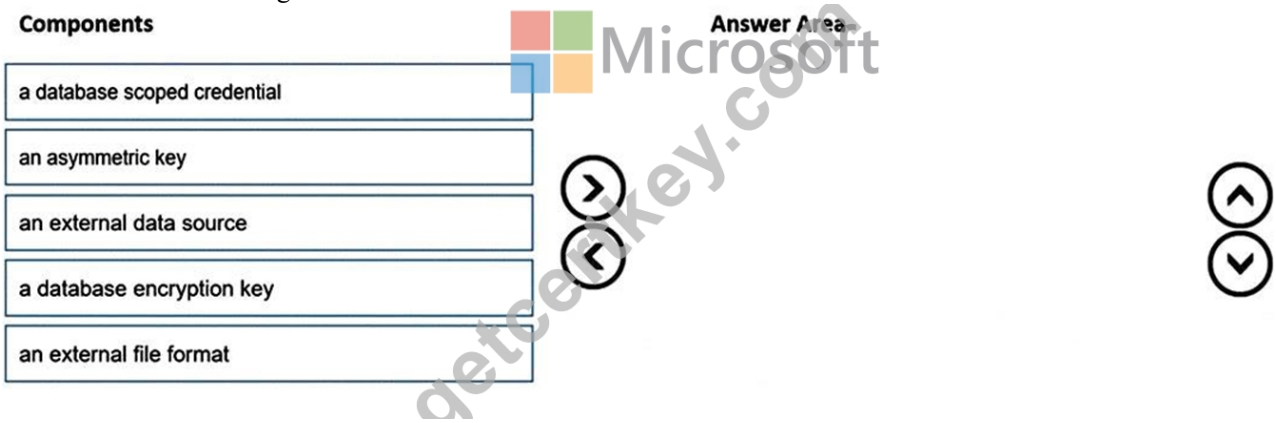
Explanation:
A Type 3 SCD supports storing two versions of a dimension member as separate columns. The table includes a column for the current value of a member plus either the original or previous value of the member. So Type
3 uses additional columns to track one key instance of history, rather than storing additional rows to track each change like in a Type 2 SCD.
This type of tracking may be used for one or two columns in a dimension table. It is not common to use it for many members of the same table. It is often used in combination with Type 1 or Type 2 members.

CustomerID	FirstName	LastName	CurrentEmail	OriginalEmail	CompanyName	InsertedDate	ModifiedDate
2	Keith	Harris	keith0@aw.com	keith0@aw.com	Progressive Sports	2021-03-20	2021-03-20
3	Donna	Carreras	donna0@aw.com	donna0@aw.com	A Bike Store	2021-03-20	2021-03-20

CustomerID	FirstName	LastName	CurrentEmail	OriginalEmail	CompanyName	InsertedDate	ModifiedDate
2	Keith	Harris	keith0@aw.com	keith0@aw.com	Progressive Sports	2021-03-20	2021-03-20
3	Donna	Carreras	dc3@aw.com	donna0@aw.com	A Bike Store	2021-03-20	2021-03-22

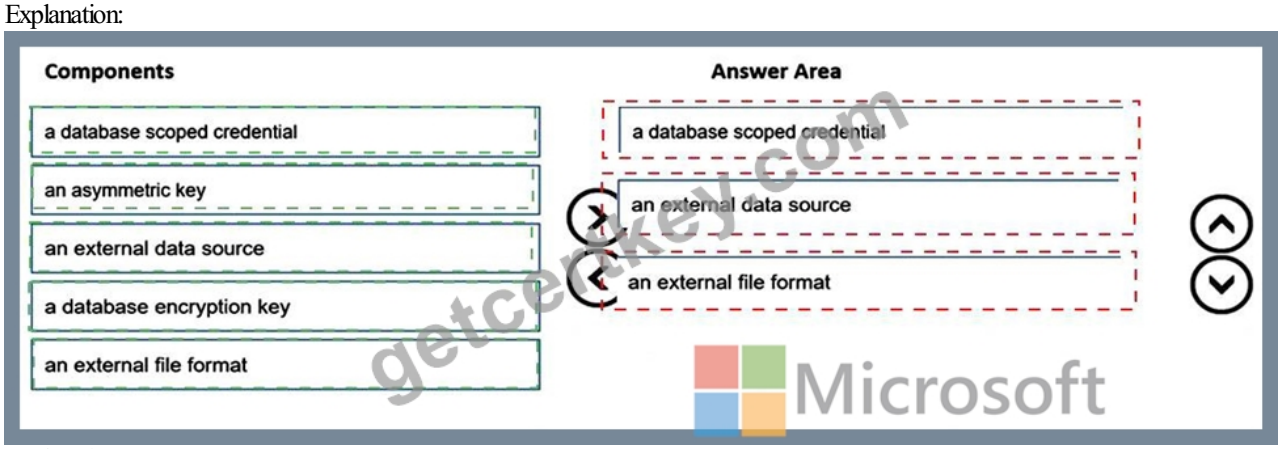
Reference:
https://k21academy.com/microsoft-azure/azure-data-engineer-dp203-q-a-day-2-live-session-review/

NEW QUESTION # 72
You are responsible for providing access to an Azure Data Lake Storage Gen2 account.
Your user account has contributor access to the storage account, and you have the application ID and access key.
You plan to use PolyBase to load data into an enterprise data warehouse in Azure Synapse Analytics.
You need to configure PolyBase to connect the data warehouse to storage account.
Which three components should you create in sequence? To answer, move the appropriate components from the list of components to the answer area and arrange them in the correct order.



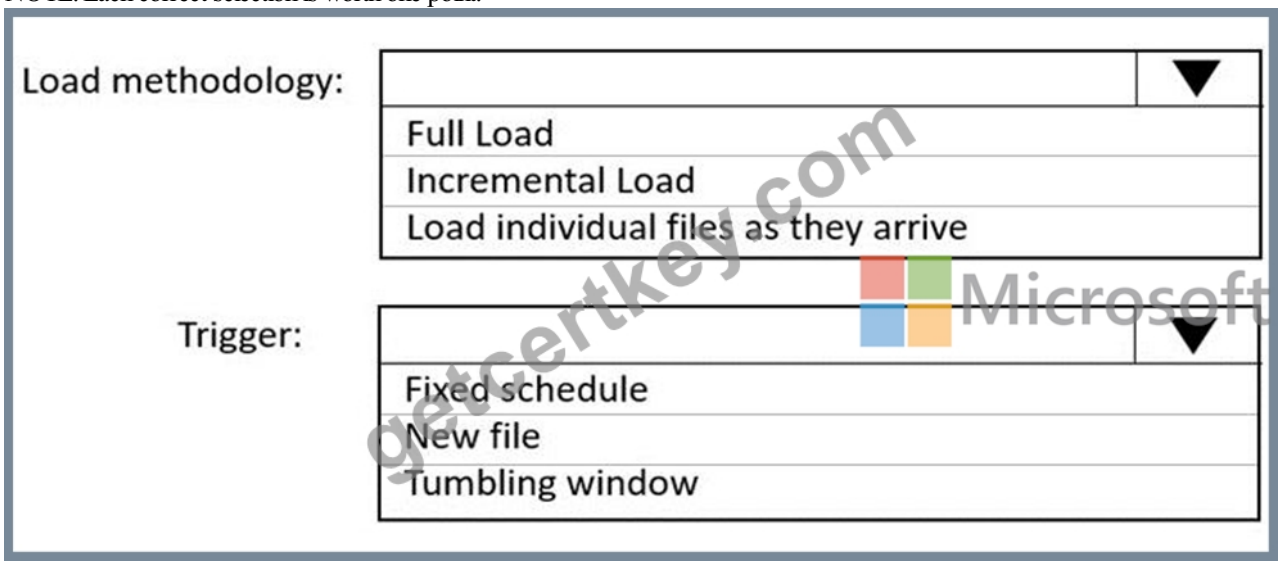
Answer:

Explanation:



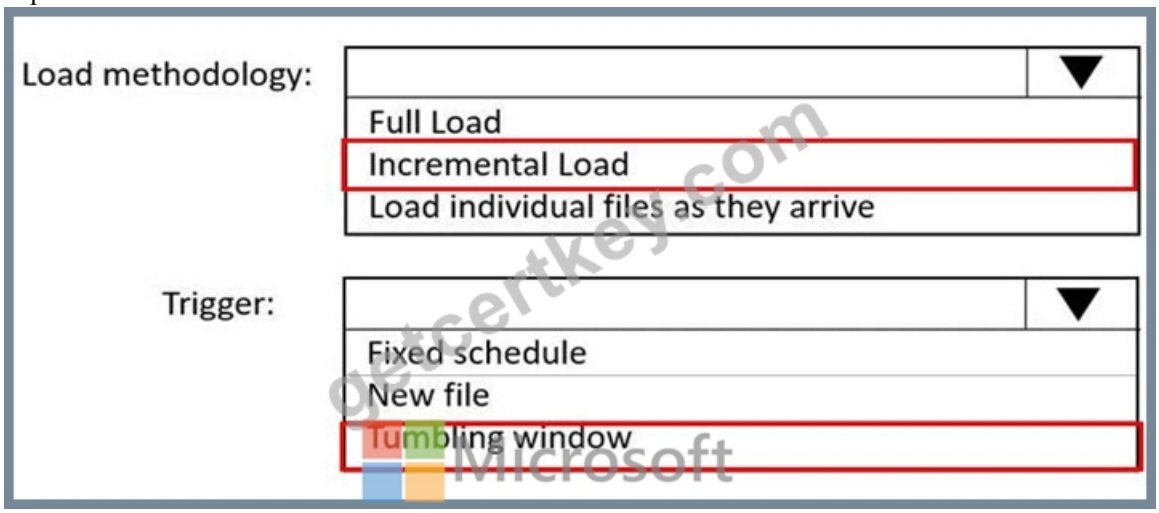
Explanation:

NEW QUESTION # 73
You have an Azure Storage account that generates 200,000 new files daily. The file names have a format of {YYYY}/{MM}/{DD}/{HH}/{CustomerID}.csv.
You need to design an Azure Data Factory solution that will load new data from the storage account to an Azure Data Lake once hourly. The solution must minimize load times and costs.
How should you configure the solution? To answer, select the appropriate options in the answer are a.
NOTE: Each correct selection is worth one point.



Answer:

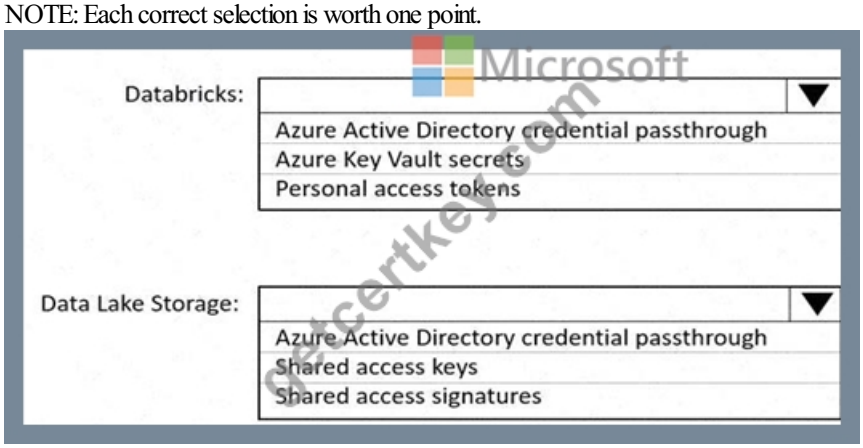
Explanation:



Reference:
https://docs.microsoft.com/en-us/stream-analytics-query/tumbling-window-azure-stream-analytics

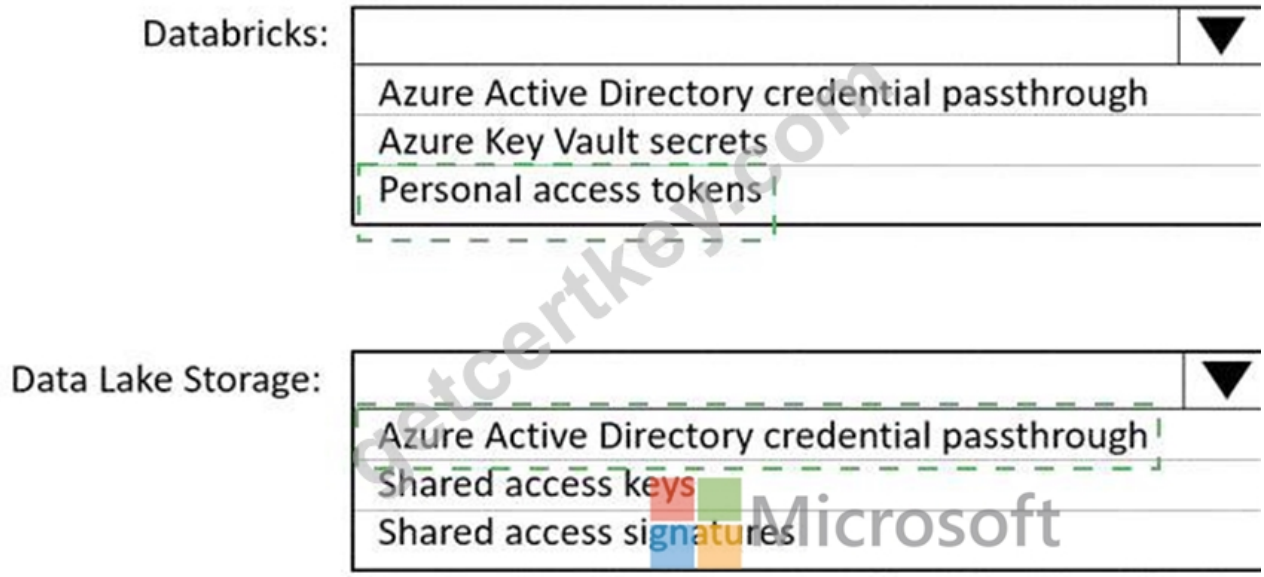
NEW QUESTION # 74
You use Azure Data Lake Storage Gen2 to store data that data scientists and data engineers will query by using Azure Databricks interactive notebooks. Users will have access only to the Data Lake Storage folders that relate to the projects on which they work.

You need to recommend which authentication methods to use for Databricks and Data Lake Storage to provide the users with the appropriate access. The solution must minimize administrative effort and development effort.
Which authentication method should you recommend for each Azure service? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

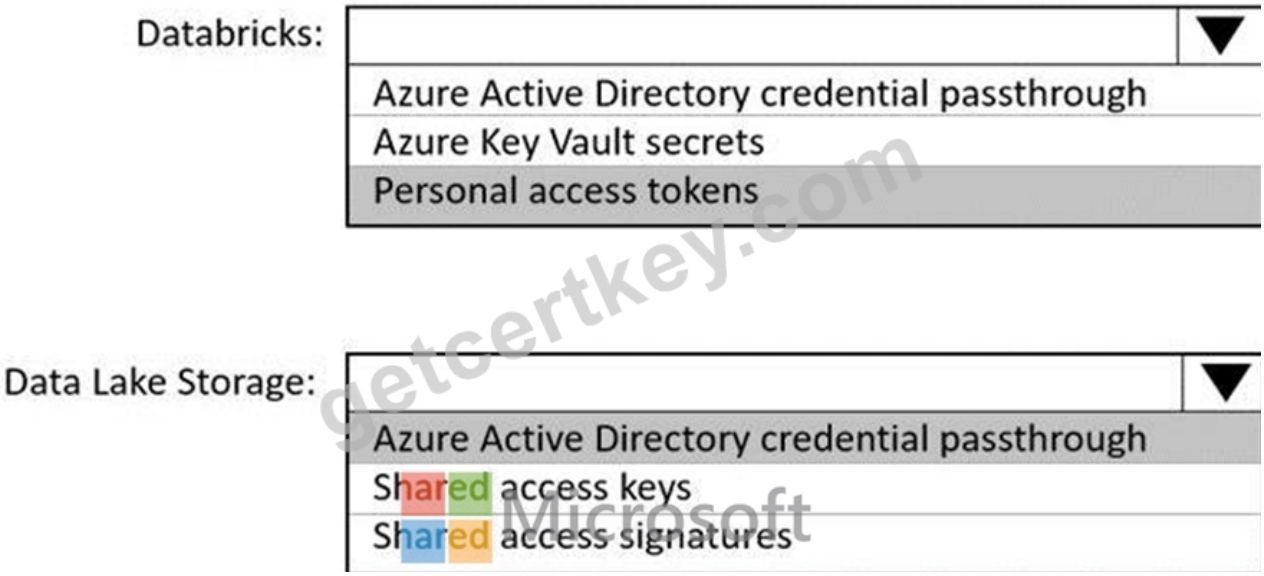


Answer:

Explanation:



Explanation:



Box 1: Personal access tokens

You can use storage shared access signatures (SAS) to access an Azure Data Lake Storage Gen2 storage account directly. With SAS, you can restrict access to a storage account using temporary tokens with fine- grained access control.
You can add multiple storage accounts and configure respective SAS token providers in the same Spark session.
Box 2: Azure Active Directory credential passthrough
You can authenticate automatically to Azure Data Lake Storage Gen1 (ADLS Gen1) and Azure Data Lake Storage Gen2 (ADLS Gen2) from Azure Databricks clusters using the same Azure Active Directory (Azure AD) identity that you use to log into Azure Databricks. When you enable your cluster for Azure Data Lake Storage credential passthrough, commands that you run on that cluster can read and write data in Azure Data Lake Storage without requiring you to configure service principal credentials for access to storage.
After configuring Azure Data Lake Storage credential passthrough and creating storage containers, you can access data directly in Azure Data Lake Storage Gen1 using an adl:// path and Azure Data Lake Storage Gen2 using an abfss:// path:
Reference:
https://docs.microsoft.com/en-us/azure/databricks/data/data-sources/azure/adls-gen2/azure-datalake-gen2-sas- access
https://docs.microsoft.com/en-us/azure/databricks/security/credential-passthrough/adls-passthrough

NEW QUESTION # 75
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