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Microsoft DP-203 certification exam is a great way for data engineers to demonstrate their expertise in designing and implementing data solutions on Azure. It is also a great way for professionals to enhance their career opportunities and increase their earning potential. With this certification, data engineers can show their proficiency in creating data pipelines, managing data storage, and processing data on Azure.

Microsoft Data Engineering on Microsoft Azure Sample Questions (Q128-

Q133):

NEW QUESTION # 128

You need to design an analytical storage solution for the transactional data. 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.

Table type to store retail store data:



	▼
Hash	
Replicated	
Round-robin	

Table type to store promotional data:

	▼
Hash	
Replicated	
Round-robin	

Answer:

Explanation:

Table type to store retail store data:



	▼
Hash	
Replicated	
Round-robin	

Table type to store promotional data:

	▼
Hash	
Replicated	
Round-robin	

Reference:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables-distribute> This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

Overview

Litware, Inc. owns and operates 300 convenience stores across the US. The company sells a variety of packaged foods and drinks, as well as a variety of prepared foods, such as sandwiches and pizzas.

Litware has a loyalty club whereby members can get daily discounts on specific items by providing their membership number at checkout.

Litware employs business analysts who prefer to analyze data by using Microsoft Power BI, and data scientists who prefer analyzing data in Azure Databricks notebooks.

Topic 2, Litware, inc.

Requirements

Business Goals

Litware wants to create a new analytics environment in Azure to meet the following requirements:

See inventory levels across the stores. Data must be updated as close to real time as possible.

Execute ad hoc analytical queries on historical data to identify whether the loyalty club discounts increase sales of the discounted products.

Every four hours, notify store employees about how many prepared food items to produce based on historical demand from the sales data.

Technical Requirements

Litware identifies the following technical requirements:

Minimize the number of different Azure services needed to achieve the business goals.

Use platform as a service (PaaS) offerings whenever possible and avoid having to provision virtual machines that must be managed by Litware.

Ensure that the analytical data store is accessible only to the company's on-premises network and Azure services.

Use Azure Active Directory (Azure AD) authentication whenever possible.

Use the principle of least privilege when designing security.

Stage Inventory data in Azure Data Lake Storage Gen2 before loading the data into the analytical data store. Litware wants to remove transient data from Data Lake Storage once the data is no longer in use. Files that have a modified date that is older than 14 days must be removed.

Limit the business analysts' access to customer contact information, such as phone numbers, because this type of data is not analytically relevant.

Ensure that you can quickly restore a copy of the analytical data store within one hour in the event of corruption or accidental deletion.

Planned Environment

Litware plans to implement the following environment:

The application development team will create an Azure event hub to receive real-time sales data, including store number, date, time, product ID, customer loyalty number, price, and discount amount, from the point of sale (POS) system and output the data to data storage in Azure.

Customer data, including name, contact information, and loyalty number, comes from Salesforce, a SaaS application, and can be imported into Azure once every eight hours. Row modified dates are not trusted in the source table.

Product data, including product ID, name, and category, comes from Salesforce and can be imported into Azure once every eight hours. Row modified dates are not trusted in the source table.

Daily inventory data comes from a Microsoft SQL server located on a private network.

Litware currently has 5 TB of historical sales data and 100 GB of customer data. The company expects approximately 100 GB of new data per month for the next year.

Litware will build a custom application named FoodPrep to provide store employees with the calculation results of how many prepared food items to produce every four hours.

Litware does not plan to implement Azure ExpressRoute or a VPN between the on-premises network and Azure.

NEW QUESTION # 129

You have an Azure Data Lake Storage Gen2 account that contains a JSON file for customers. The file contains two attributes named FirstName and LastName.

You need to copy the data from the JSON file to an Azure Synapse Analytics table by using Azure Databricks.

A new column must be created that concatenates the FirstName and LastName values.

You create the following components:

- * A destination table in Azure Synapse
- * An Azure Blob storage container
- * A service principal

In which order should you perform the actions? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

Mount the Data Lake Storage onto DBFS.

Write the results to a table in Azure Synapse.

Specify a temporary folder to stage the data.

Read the file into a data frame.

Perform transformations on the data frame.

Answer Area



Answer:

Explanation:

Actions	Answer Area
Mount the Data Lake Storage onto DBFS.	Mount the Data Lake Storage onto DBFS.
Write the results to a table in Azure Synapse.	Read the file into a data frame.
Specify a temporary folder to stage the data.	Perform transformations on the data frame.
Read the file into a data frame.	Specify a temporary folder to stage the data.
Perform transformations on the data frame.	Write the results to a table in Azure Synapse.

Explanation

Table Description automatically generated

Mount the Data Lake Storage onto DBFS.
Read the file into a data frame.
Perform transformations on the data frame.
Specify a temporary folder to stage the data.
Write the results to a table in Azure Synapse.

Step 1: Mount the Data Lake Storage onto DBFS

Begin with creating a file system in the Azure Data Lake Storage Gen2 account.

Step 2: Read the file into a data frame.

You can load the json files as a data frame in Azure Databricks.

Step 3: Perform transformations on the data frame.

Step 4: Specify a temporary folder to stage the data

Specify a temporary folder to use while moving data between Azure Databricks and Azure Synapse.

Step 5: Write the results to a table in Azure Synapse.

You upload the transformed data frame into Azure Synapse. You use the Azure Synapse connector for Azure Databricks to directly upload a dataframe as a table in a Azure Synapse.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-databricks/databricks-extract-load-sql-data-warehouse>

NEW QUESTION # 130

You have a self-hosted integration runtime in Azure Data Factory.

The current status of the integration runtime has the following configurations:

- * Status: Running
- * Type: Self-Hosted
- * Version: 4.4.7292.1
- * Running / Registered Node(s): 1/1
- * High Availability Enabled: False
- * Linked Count: 0
- * Queue Length: 0
- * Average Queue Duration: 0.00s

The integration runtime has the following node details:

- * Name: X-M
- * Status: Running
- * Version: 4.4.7292.1
- * Available Memory: 7697MB
- * CPU Utilization: 6%
- * Network (In/Out): 1.21KBps/0.83KBps
- * Concurrent Jobs (Running/Limit): 2/14

* Role: Dispatcher/Worker

* Credential Status: In Sync

Use the drop-down menus to select the answer choice that completes each statement based on the information presented.

NOTE: Each correct selection is worth one point.

If the X-M node becomes unavailable, all
executed pipelines will:

fail until the node comes back online
switch to another integration runtime
exceed the CPU limit

The number of concurrent jobs and the
CPU usage indicate that the Concurrent
Jobs (Running/Limit) value should be:

raised
lowered
left as is

Answer:

Explanation:

If the X-M node becomes unavailable, all
executed pipelines will:

fail until the node comes back online
switch to another integration runtime
exceed the CPU limit

The number of concurrent jobs and the
CPU usage indicate that the Concurrent
Jobs (Running/Limit) value should be:

raised
lowered
left as is

Explanation:

If the X-M node becomes unavailable, all
executed pipelines will:

fail until the node comes back online
switch to another integration runtime
exceed the CPU limit

The number of concurrent jobs and the
CPU usage indicate that the Concurrent
Jobs (Running/Limit) value should be:

raised
lowered
left as is

Box 1: fail until the node comes back online

We see: High Availability Enabled: False

Note: Higher availability of the self-hosted integration runtime so that it's no longer the single point of failure in your big data solution or cloud data integration with Data Factory.

Box 2: lowered

We see:

Concurrent Jobs (Running/Limit): 2/14

CPU Utilization: 6%

Note: When the processor and available RAM aren't well utilized, but the execution of concurrent jobs reaches a node's limits, scale up by increasing the number of concurrent jobs that a node can run Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/create-self-hosted-integration-runtime>

NEW QUESTION # 131

You have an Azure Data Lake Storage Gen2 account that contains a JSON file for customers. The file contains two attributes named FirstName and LastName.

You need to copy the data from the JSON file to an Azure Synapse Analytics table by using Azure Databricks. A new column must be created that concatenates the FirstName and LastName values.

You create the following components:

A destination table in Azure Synapse

An Azure Blob storage container

A service principal

Which five actions should you perform in sequence next in is Databricks notebook? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
Mount the Data Lake Storage onto DBFS.	
Write the results to a table in Azure Synapse.	
Perform transformations on the file.	
Specify a temporary folder to stage the data.	
Write the results to Data Lake Storage.	
Read the file into a data frame.	
Drop the data frame.	
Perform transformations on the data frame.	

Answer:

Explanation:

Actions	Answer Area
Mount the Data Lake Storage onto DBFS.	Mount the Data Lake Storage onto DBFS.
Write the results to a table in Azure Synapse.	Read the file into a data frame.
Perform transformations on the file.	Perform transformations on the data frame.
Specify a temporary folder to stage the data.	Specify a temporary folder to stage the data.
Write the results to Data Lake Storage.	Write the results to a table in Azure Synapse.
Read the file into a data frame.	
Drop the data frame.	
Perform transformations on the data frame.	



NEW QUESTION # 132

You store files in an Azure Data Lake Storage Gen2 container. The container has the storage policy shown in the following exhibit.

```
{
  "rules": [
    {
      "enabled": true,
      "name": "contosorule",
      "type": "Lifecycle",
      "definition": {
        "actions": {
          "delete": {
            "daysAfterCreationGreaterThan": 60
          },
          "baseBlob": {
            "tierToCool": {
              "daysAfterModificationGreaterThan": 30
            }
          },
          "filters": {
            "blobTypes": [
              "blockBlob"
            ],
            "prefixMatch": [
              "container1/contoso"
            ]
          }
        }
      }
    }
  ]
}
```

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

The files are [answer choice] after 30 days:

	▼
deleted from the container	
moved to archive storage	
moved to cool storage	
moved to hot storage	

The storage policy applies to [answer choice]:

	▼
container1/contoso.csv	
container1/docs/contoso.json	
container1/mycontoso/contoso.csv	

Answer:

Explanation:

The files are [answer choice] after 30 days:



	▼
deleted from the container	
moved to archive storage	
moved to cool storage	
moved to hot storage	

The storage policy applies to [answer choice]:

	▼
container1/contoso.csv	
container1/docs/contoso.json	
container1/mycontoso/contoso.csv	

Reference:

<https://docs.microsoft.com/en->

NEW QUESTION # 133

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