

Microsoft

Exam Questions DP-203

Data Engineering on Microsoft Azure





NEW QUESTION 1

- (Exam Topic 3)

You have two Azure Blob Storage accounts named account1 and account2?

You plan to create an Azure Data Factory pipeline that will use scheduled intervals to replicate newly created or modified blobs from account1 to account? You need to recommend a solution to implement the pipeline. The solution must meet the following requirements:

- Ensure that the pipeline only copies blobs that were created of modified since the most recent replication event.
- Minimize the effort to create the pipeline. What should you recommend?
- A. Create a pipeline that contains a flowlet.
- B. Create a pipeline that contains a Data Flow activity.
- C. Run the Copy Data tool and select Metadata-driven copy task.
- D. Run the Copy Data tool and select Built-in copy task.

Answer: A

NEW QUESTION 2

- (Exam Topic 3)

You are designing a data mart for the human resources (MR) department at your company. The data mart will contain information and employee transactions. From a source system you have a flat extract that has the following fields:

- EmployeeID
- FirstName
- LastName
- Recipient
- GrossArnount
- TransactionID
- GovernmentID
- NetAmountPaid
- TransactionDate

You need to design a start schema data model in an Azure Synapse analytics dedicated SQL pool for the data mart.

Which two tables should you create? Each Correct answer present part of the solution.

A. a dimension table for employee

B. a fabric for Employee

C. a dimension table far EmployeeTransaction

D. a dimension table for Transaction

E. a fact table for Transaction

Answer: AE

Explanation:

Reference:

https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables-overvie

NEW QUESTION 3

- (Exam Topic 3)

A company has a real-time data analysis solution that is hosted on Microsoft Azure. The solution uses Azure Event Hub to ingest data and an Azure Stream Analytics cloud job to analyze the data. The cloud job is configured to use 120 Streaming Units (SU).

You need to optimize performance for the Azure Stream Analytics job.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Implement event ordering.

B. Implement Azure Stream Analytics user-defined functions (UDF).

C. Implement query parallelization by partitioning the data output.

D. Scale the SU count for the job up.

E. Scale the SU count for the job down.

F. Implement query parallelization by partitioning the data input.

Answer: DF

Explanation:

Reference:

https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-parallelization

NEW QUESTION 4

- (Exam Topic 3)

You are implementing a batch dataset in the Parquet format.

Data tiles will be produced by using Azure Data Factory and stored in Azure Data Lake Storage Gen2. The files will be consumed by an Azure Synapse Analytics serverless SQL pool.

You need to minimize storage costs for the solution. What should you do?

- A. Store all the data as strings in the Parquet tiles.
- B. Use OPENROWEST to query the Parquet files.
- C. Create an external table mat contains a subset of columns from the Parquet files.
- D. Use Snappy compression for the files.

Answer: C



Explanation:

An external table points to data located in Hadoop, Azure Storage blob, or Azure Data Lake Storage. External tables are used to read data from files or write data to files in Azure Storage. With Synapse SQL, you can use external tables to read external data using dedicated SQL pool or serverless SQL pool. Reference:

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

NEW QUESTION 5

- (Exam Topic 3)

HOTSPOT

You have an Azure Data Factory instance named ADF1 and two Azure Synapse Analytics workspaces named WS1 and WS2.

ADF1 contains the following pipelines:

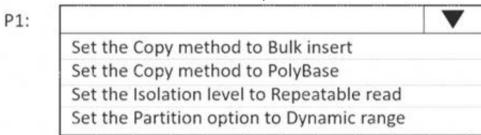
P1: Uses a copy activity to copy data from a nonpartitioned table in a dedicated SQL pool of WS1 to an Azure Data Lake Storage Gen2 account

P2: Uses a copy activity to copy data from text-delimited files in an Azure Data Lake Storage Gen2 account to a nonpartitioned table in a dedicated SQL pool of WS2

You need to configure P1 and P2 to maximize parallelism and performance.

Which dataset settings should you configure for the copy activity if each pipeline? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



Set the Copy method to Bulk insert
Set the Copy method to PolyBase
Set the Isolation level to Repeatable read
Set the Partition option to Dynamic range

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Box 1: Set the Copy method to PolyBase

While SQL pool supports many loading methods including non-Polybase options such as BCP and SQL BulkCopy API, the fastest and most scalable way to load data is through PolyBase. PolyBase is a technology that accesses external data stored in Azure Blob storage or Azure Data Lake Store via the T-SQL language.

Box 2: Set the Copy method to Bulk insert

Polybase not possible for text files. Have to use Bulk insert. Reference:

https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/load-data-overview

NEW QUESTION 6

- (Exam Topic 3)

You have an Azure Synapse Analytics workspace named WS1 that contains an Apache Spark pool named Pool1.

You plan to create a database named D61 in Pool1.

You need to ensure that when tables are created in DB1, the tables are available automatically as external tables to the built-in serverless SQL pod. Which format should you use for the tables in DB1?

A. Parquet

B. CSV

C. ORC

D. JSON

Answer: A

Explanation:

Serverless SQL pool can automatically synchronize metadata from Apache Spark. A serverless SQL pool database will be created for each database existing in serverless Apache Spark pools.

For each Spark external table based on Parquet or CSV and located in Azure Storage, an external table is created in a serverless SQL pool database. Reference:

https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/develop-storage-files-spark-tables

NEW QUESTION 7

- (Exam Topic 3)

A company plans to use Apache Spark analytics to analyze intrusion detection data.

You need to recommend a solution to analyze network and system activity data for malicious activities and policy violations. The solution must minimize administrative efforts.

What should you recommend?

https://www.surepassexam.com/DP-203-exam-dumps.html (303 New Questions)

A. Azure Data Lake Storage

B. Azure Databricks

C. Azure HDInsight

D. Azure Data Factory

Answer: B

Explanation:

Three common analytics use cases with Microsoft Azure Databricks

Recommendation engines, churn analysis, and intrusion detection are common scenarios that many organizations are solving across multiple industries. They require machine learning, streaming analytics, and utilize massive amounts of data processing that can be difficult to scale without the right tools.

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Note: Recommendation engines, churn analysis, and intrusion detection are common scenarios that many organizations are solving across multiple industries. They require machine learning, streaming analytics, and utilize massive amounts of data processing that can be difficult to scale without the right tools. Reference:

https://azure.microsoft.com/es-es/blog/three-critical-analytics-use-cases-with-microsoft-azure-databricks/

NEW QUESTION 8

- (Exam Topic 3)

You have an Azure Data Lake Storage account that contains a staging zone.

You need to design a dairy process to ingest incremental data from the staging zone, transform the data by executing an R script, and then insert the transformed data into a data warehouse in Azure Synapse Analytics.

Solution: You use an Azure Data Factory schedule trigger to execute a pipeline that copies the data to a staging table in the data warehouse, and then uses a stored procedure to execute the R script.

Does this meet the goal?

A. Yes B. No

Answer: A

Explanation:

If you need to transform data in a way that is not supported by Data Factory, you can create a custom activity with your own data processing logic and use the activity in the pipeline.

Note: You can use data transformation activities in Azure Data Factory and Synapse pipelines to transform and process your raw data into predictions and insights at scale.

Reference:

https://docs.microsoft.com/en-us/azure/data-factory/transform-data

NEW QUESTION 9

- (Exam Topic 3)

You have several Azure Data Factory pipelines that contain a mix of the following types of activities.

- * Wrangling data flow
- * Notebook
- * Copy

* jar

Which two Azure services should you use to debug the activities? Each correct answer presents part of the solution NOTE: Each correct selection is worth one point.

- A. Azure HDInsight
- B. Azure Databricks
- C. Azure Machine Learning
- D. Azure Data Factory
- E. Azure Synapse Analytics

Answer: CE

NEW QUESTION 10

- (Exam Topic 3)

You have an Azure SQL database named Database1 and two Azure event hubs named HubA and HubB. The data consumed from each source is shown in the following table.

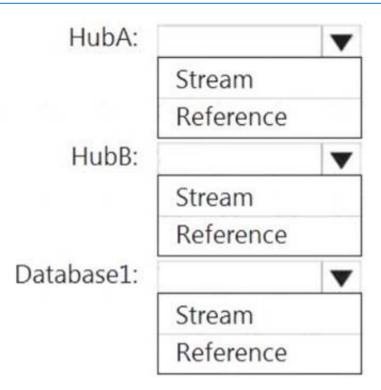
Source	Data	
Database1	Driver's name	
	Driver's license number	
HubA	Ride route	
	Ride distance	
	Ride duration	
HubB	Ride fare	
	Ride payment	

You need to implement Azure Stream Analytics to calculate the average fare per mile by driver.

How should you configure the Stream Analytics input for each source? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.





A. Mastered B. Not Mastered

Answer: A

Explanation:

HubA: Stream HubB: Stream Database1: Reference

Reference data (also known as a lookup table) is a finite data set that is static or slowly changing in nature, used to perform a lookup or to augment your data streams. For example, in an IoT scenario, you could store metadata about sensors (which don't change often) in reference data and join it with real time IoT data streams. Azure Stream Analytics loads reference data in memory to achieve low latency stream processing

Reference:

https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-use-reference-data

NEW QUESTION 10

- (Exam Topic 3)

You have an Azure subscription that contains a logical Microsoft SQL server named Server1. Server1 hosts an Azure Synapse Analytics SQL dedicated pool named Pool1.

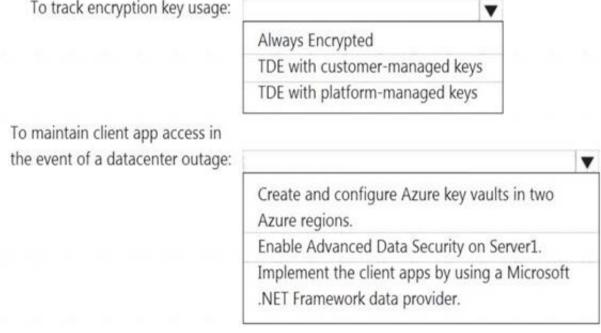
You need to recommend a Transparent Data Encryption (TDE) solution for Server1. The solution must meet the following requirements:

Track the usage of encryption keys.

Maintain the access of client apps to Pool1 in the event of an Azure datacenter outage that affects the availability of the encryption keys.

What should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



A. Mastered

B. Not Mastered

Answer: A

Explanation:

Box 1: TDE with customer-managed keys

Customer-managed keys are stored in the Azure Key Vault. You can monitor how and when your key vaults are accessed, and by whom. You can do this by enabling logging for Azure Key Vault, which saves information in an Azure storage account that you provide.

Box 2: Create and configure Azure key vaults in two Azure regions

The contents of your key vault are replicated within the region and to a secondary region at least 150 miles away, but within the same geography to maintain high durability of your keys and secrets.

Reference:

https://docs.microsoft.com/en-us/azure/synapse-analytics/security/workspaces-encryption https://docs.microsoft.com/en-us/azure/key-vault/general/logging



NEW QUESTION 14

- (Exam Topic 3)

You are designing a star schema for a dataset that contains records of online orders. Each record includes an order date, an order due date, and an order ship date.

You need to ensure that the design provides the fastest query times of the records when querying for arbitrary date ranges and aggregating by fiscal calendar attributes.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Create a date dimension table that has a DateTime key.
- B. Use built-in SQL functions to extract date attributes.
- C. Create a date dimension table that has an integer key in the format of yyyymmdd.
- D. In the fact table, use integer columns for the date fields.
- E. Use DateTime columns for the date fields.

Answer: BD

NEW QUESTION 18

- (Exam Topic 3)

You are designing an anomaly detection solution for streaming data from an Azure IoT hub. The solution must meet the following requirements:

- Send the output to Azure Synapse.
- ldentify spikes and dips in time series data.
- Minimize development and configuration effort. Which should you include in the solution?
- A. Azure Databricks
- B. Azure Stream Analytics
- C. Azure SQL Database

Answer: B

Explanation:

You can identify anomalies by routing data via IoT Hub to a built-in ML model in Azure Stream Analytics. Reference:

https://docs.microsoft.com/en-us/learn/modules/data-anomaly-detection-using-azure-iot-hub/

NEW QUESTION 19

- (Exam Topic 3)

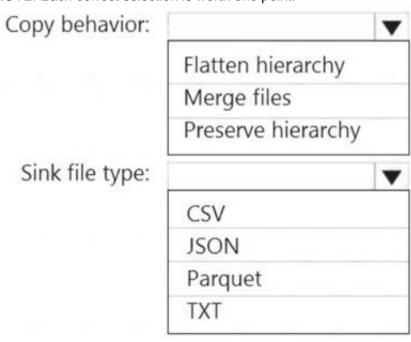
You use Azure Data Factory to prepare data to be queried by Azure Synapse Analytics serverless SQL pools. Files are initially ingested into an Azure Data Lake Storage Gen2 account as 10 small JSON files. Each file contains the same data attributes and data from a subsidiary of your company.

You need to move the files to a different folder and transform the data to meet the following requirements: > Provide the fastest possible query times.

Automatically infer the schema from the underlying files.

How should you configure the Data Factory copy activity? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



A. Mastered

B. Not Mastered

Answer: A

Explanation:

Box 1: Preserver herarchy

Compared to the flat namespace on Blob storage, the hierarchical namespace greatly improves the performance of directory management operations, which improves overall job performance.

Box 2: Parquet

Azure Data Factory parquet format is supported for Azure Data Lake Storage Gen2. Parquet supports the schema property.

Reference:

https://docs.microsoft.com/en-us/azure/storage/blobs/data-lake-storage-introduction https://docs.microsoft.com/en-us/azure/data-factory/format-parquet

NEW QUESTION 23

as HighestScore



- (Exam Topic 3)

You are building an Azure Stream Analytics job to retrieve game data.

You need to ensure that the job returns the highest scoring record for each five-minute time interval of each game.

How should you complete the Stream Analytics query? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

SELECT Collect(Score) CollectTop(1) OVER(ORDER BY Score Desc) Game, MAX(Score) TopOne() OVER(PARTITION BY Game ORDER BY Score Desc)

FROM input TIMESTAMP BY CreatedAt

GROUP BY Game Hopping(minute,5) Tumbling(minute,5) Windows(TumblingWindow(minute,5),Hopping(minute,5))

A. Mastered B. Not Mastered

Answer: A

Explanation:

Box 1: TopOne OVER(PARTITION BY Game ORDER BY Score Desc)

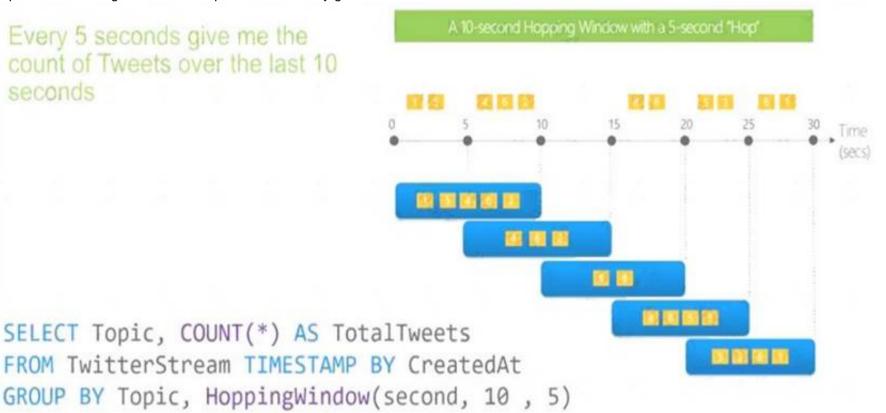
TopOne returns the top-rank record, where rank defines the ranking position of the event in the window according to the specified ordering. Ordering/ranking is based on event columns and can be specified in ORDER BY clause.

Box 2: Hopping(minute,5)

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.

A picture containing timeline Description automatically generated

Every 5 seconds give me the count of Tweets over the last 10 seconds



Reference:

https://docs.microsoft.com/en-us/stream-analytics-guery/topone-azure-stream-analytics https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-

NEW QUESTION 26

- (Exam Topic 3)

You have an Azure Synapse Analytics dedicated SQL pool named pool1.

You plan to implement a star schema in pool1 and create a new table named DimCustomer by using the following code.



```
CREATE TABLE dbo.[DimCustomer](
    [CustomerKey] int NOT NULL,
    [CustomerSourceID] [int] NOT NULL,
    [Title] [nvarchar](8) NULL,
    [FirstName] [nvarchar](50) NOT NULL,
    [MiddleName] [nvarchar](50) NULL,
    [LastName] [nvarchar](50) NOT NULL,
    [Suffix] [nvarchar](10) NULL,
    [CompanyName] [nvarchar](128) NULL,
    [SalesPerson] [nvarchar](256) NULL,
    [EmailAddress] [nvarchar](50) NULL,
    [Phone] [nvarchar](25) NULL,
    [InsertedDate] [datetime] NOT NULL,
    [ModifiedDate] [datetime] NOT NULL,
    [HashKey] [varchar](100) NOT NULL,
    [IsCurrentRow] [bit] NOT NULL
)
WITH
(
    DISTRIBUTION = REPLICATE,
    CLUSTERED COLUMNSTORE INDEX
);
GO
```

You need to ensure that DimCustomer has the necessary columns to support a Type 2 slowly changing dimension (SCD). Which two columns should you add? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. [HistoricalSalesPerson] [nvarchar] (256) NOT NULL
- B. [EffectiveEndDate] [datetime] NOT NULL
- C. [PreviousModifiedDate] [datetime] NOT NULL
- D. [RowID] [bigint] NOT NULL
- E. [EffectiveStartDate] [datetime] NOT NULL

Answer: AB

NEW QUESTION 28

- (Exam Topic 3)

You are designing an Azure Stream Analytics solution that receives instant messaging data from an Azure Event Hub.

You need to ensure that the output from the Stream Analytics job counts the number of messages per time zone every 15 seconds.

How should you complete the Stream Analytics query? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

FROM MessageStream

LAST
OVER
SYSTEM.TIMESTAMP()
TIMESTAMP BY

GROUP BY TimeZone,

HOPPINGWINDOW
SESSIONWINDOW
SLIDINGWINDOW
TUMBLINGWINDOW

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Table Description automatically generated

Box 1: timestamp by

Box 2: TUMBLINGWINDOW

Tumbling window functions are used to segment a data stream into distinct time segments and perform a function against them, such as the example below. The key differentiators of a Tumbling window are that they repeat, do not overlap, and an event cannot belong to more than one tumbling window.

Timeline Description automatically generated

Reference:

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

NEW QUESTION 29

- (Exam Topic 3)

You need to schedule an Azure Data Factory pipeline to execute when a new file arrives in an Azure Data Lake Storage Gen2 container. Which type of trigger should you use?

A. on-demand

B. tumbling window

C. schedule

D. storage event

Answer: D

Explanation:

Event-driven architecture (EDA) is a common data integration pattern that involves production, detection, consumption, and reaction to events. Data integration scenarios often require Data Factory customers to trigger pipelines based on events happening in storage account, such as the arrival or deletion of a file in Azure Blob Storage account.

Reference:

https://docs.microsoft.com/en-us/azure/data-factory/how-to-create-event-trigger

NEW QUESTION 33

- (Exam Topic 3)

You have an Azure Synapse Analytics dedicated SQL pool that contains a table named Table1. Table1 contains the following:

- One billion rows
- A clustered columnstore index
- A hash-distributed column named Product Key
- A column named Sales Date that is of the date data type and cannot be null Thirty million rows will be added to Table1 each month.

You need to partition Table1 based on the Sales Date column. The solution must optimize query performance and data loading.

How often should you create a partition?

- A. once per month
- B. once per year
- C. once per day
- D. once per week

Answer: B

Explanation:

Need a minimum 1 million rows per distribution. Each table is 60 distributions. 30 millions rows is added each month. Need 2 months to get a minimum of 1 million rows per distribution in a new partition.

Note: When creating partitions on clustered columnstore tables, it is important to consider how many rows belong to each partition. For optimal compression and performance of clustered columnstore tables, a minimum of 1 million rows per distribution and partition is needed. Before partitions are created, dedicated SQL pool already divides each table into 60 distributions.

Any partitioning added to a table is in addition to the distributions created behind the scenes. Using this example, if the sales fact table contained 36 monthly partitions, and given that a dedicated SQL pool has 60 distributions, then the sales fact table should contain 60 million rows per month, or 2.1 billion rows when all months are populated. If a table contains fewer than the recommended minimum number of rows per partition, consider using fewer partitions in order to increase the number of rows per partition.

Reference:

https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables-partitio

NEW QUESTION 38

- (Exam Topic 3)

You have an Azure Factory instance named DF1 that contains a pipeline named PL1.PL1 includes a tumbling window trigger.

You create five clones of PL1. You configure each clone pipeline to use a different data source.

You need to ensure that the execution schedules of the clone pipeline match the execution schedule of PL1. What should you do?

- A. Add a new trigger to each cloned pipeline
- B. Associate each cloned pipeline to an existing trigger.
- C. Create a tumbling window trigger dependency for the trigger of PL1.
- D. Modify the Concurrency setting of each pipeline.

Answer: B

NEW QUESTION 40

- (Exam Topic 3)

You are designing a folder structure for the files m an Azure Data Lake Storage Gen2 account. The account has one container that contains three years of data. You need to recommend a folder structure that meets the following requirements:

- Supports partition elimination for queries by Azure Synapse Analytics serverless SQL pooh
- Supports fast data retrieval for data from the current month
- Simplifies data security management by department Which folder structure should you recommend?
- A. \YYY\MM\DD\Department\DataSource\DataFile_YYYMMMDD.parquet
- B. \Depdftment\DataSource\YYY\MM\DataFile YYYYMMDD.parquet
- C. \DD\MM\YYYY\Department\DataSource\DataFile_DDMMYY.parquet
- D. \DataSource\Department\YYYYMM\DataFile_YYYYMMDD.parquet

Answer: B

Explanation:



Department top level in the hierarchy to simplify security management.

Month (MM) at the leaf/bottom level to support fast data retrieval for data from the current month.

NEW QUESTION 45

- (Exam Topic 3)

You need to design a solution that will process streaming data from an Azure Event Hub and output the data to Azure Data Lake Storage. The solution must ensure that analysts can interactively query the streaming data.

What should you use?

- A. event triggers in Azure Data Factory
- B. Azure Stream Analytics and Azure Synapse notebooks
- C. Structured Streaming in Azure Databricks
- D. Azure Queue storage and read-access geo-redundant storage (RA-GRS)

Answer: C

Explanation:

Apache Spark Structured Streaming is a fast, scalable, and fault-tolerant stream processing API. You can use it to perform analytics on your streaming data in near real-time.

With Structured Streaming, you can use SQL queries to process streaming data in the same way that you would process static data.

Azure Event Hubs is a scalable real-time data ingestion service that processes millions of data in a matter of seconds. It can receive large amounts of data from multiple sources and stream the prepared data to Azure Data Lake or Azure Blob storage.

Azure Event Hubs can be integrated with Spark Structured Streaming to perform the processing of messages in near real-time. You can guery and analyze the processed data as it comes by using a Structured Streaming query and Spark SQL.

Reference:

https://k21academy.com/microsoft-azure/data-engineer/structured-streaming-with-azure-event-hubs/

NEW QUESTION 48

- (Exam Topic 3)

You have an Azure Synapse Analytics Apache Spark pool named Pool1.

You plan to load JSON files from an Azure Data Lake Storage Gen2 container into the tables in Pool1. The structure and data types vary by file.

You need to load the files into the tables. The solution must maintain the source data types. What should you do?

- A. Use a Get Metadata activity in Azure Data Factory.
- B. Use a Conditional Split transformation in an Azure Synapse data flow.
- C. Load the data by using the OPEHROwset Transact-SQL command in an Azure Synapse Anarytics serverless SQL pool.
- D. Load the data by using PySpark.

Answer: A

Explanation:

Serverless SQL pool can automatically synchronize metadata from Apache Spark. A serverless SQL pool database will be created for each database existing in serverless Apache Spark pools.

Serverless SQL pool enables you to guery data in your data lake. It offers a T-SQL query surface area that accommodates semi-structured and unstructured data queries.

To support a smooth experience for in place querying of data that's located in Azure Storage files, serverless SQL pool uses the OPENROWSET function with additional capabilities.

The easiest way to see to the content of your JSON file is to provide the file URL to the OPENROWSET function, specify csv FORMAT.

Reference:

https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/query-json-files https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/query-data-storage

NEW QUESTION 51

- (Exam Topic 3)

You have an Azure SQL database named DB1 and an Azure Data Factory data pipeline named pipeline. From Data Factory, you configure a linked service to DB1.

In DB1, you create a stored procedure named SP1. SP1 returns a single row of data that has four columns.

You need to add an activity to pipeline to execute SP1. The solution must ensure that the values in the columns are stored as pipeline variables.

Which two types of activities can you use to execute SP1? (Refer to Data Engineering on Microsoft Azure documents or guide for Answers explanation available at Microsoft.com)

A. Stored Procedure

B. Lookup

C. Script

D. Copy

Answer: AB

Explanation:

the two types of activities that you can use to execute SP1 are Stored Procedure and Lookup.

A Stored Procedure activity executes a stored procedure on an Azure SQL Database or Azure Synapse Analytics or SQL Server1. You can specify the stored procedure name and parameters in the activity setting1s.

A Lookup activity retrieves a dataset from any data source that returns a single row of data with four columns2. You can use a query to execute a stored procedure as the source of the Lookup activit2y. You can then store the values in the columns as pipeline variables by using expressions2.

https://learn.microsoft.com/en-us/azure/data-factory/transform-data-using-stored-procedure

NEW QUESTION 55

(Exam Topic 3)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.



After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You plan to create an Azure Databricks workspace that has a tiered structure. The workspace will contain the following three workloads:

- A workload for data engineers who will use Python and SQL.
- A workload for jobs that will run notebooks that use Python, Scala, and SOL.
- A workload that data scientists will use to perform ad hoc analysis in Scala and R.

The enterprise architecture team at your company identifies the following standards for Databricks environments:

- The data engineers must share a cluster.
- The job cluster will be managed by using a request process whereby data scientists and data engineers provide packaged notebooks for deployment to the cluster.
- All the data scientists must be assigned their own cluster that terminates automatically after 120 minutes of inactivity. Currently, there are three data scientists. You need to create the Databricks clusters for the workloads.

Solution: You create a Standard cluster for each data scientist, a High Concurrency cluster for the data engineers, and a High Concurrency cluster for the jobs. Does this meet the goal?

A. Yes

B. No

Answer: A

Explanation:

We need a High Concurrency cluster for the data engineers and the jobs. Note:

Standard clusters are recommended for a single user. Standard can run workloads developed in any language: Python, R, Scala, and SQL.

A high concurrency cluster is a managed cloud resource. The key benefits of high concurrency clusters are that they provide Apache Spark-native fine-grained sharing for maximum resource utilization and minimum query latencies.

Reference: https://docs.azuredatabricks.net/clusters/configure.html

NEW QUESTION 60

- (Exam Topic 3)

You are designing the folder structure for an Azure Data Lake Storage Gen2 account. You identify the following usage patterns:

- Users will query data by using Azure Synapse Analytics serverless SQL pools and Azure Synapse Analytics serverless Apache Spark pods.
- Most queries will include a filter on the current year or week.
- Data will be secured by data source.

You need to recommend a folder structure that meets the following requirements:

- Supports the usage patterns
- Simplifies folder security
- Minimizes query times

Which folder structure should you recommend?

\YYYYY\MW\DataSource\SubjectArea\FileData_YYYY_MM_DD.parquet

B)

DataSource\SubjectArea\WW\YYYY\FileData_YYYY_MM_DD.parquet

C) \DataSource\SubjectArea\YYYY\WW\FileData YYYY MM DD.parquet

D) \DataSource\SubjectArea\YYYY-WN\FileData_YYYY_MM_DD.parquet

E) WW\YYYY\SubjectArea\DataSource\FileData_YYYY_MM_DD.parquet

A. Option A

B. Option B

C. Option C

D. Option D E. Option E

Answer: C

Explanation:

Data will be secured by data source. -> Use DataSource as top folder.

Most queries will include a filter on the current year or week -> Use \YYYY\WW\ as subfolders. Common Use Cases

A common use case is to filter data stored in a date (and possibly time) folder structure such as

/YYYY/MM/DD/ or /YYYY/MM/YYYY-MM-DD/. As new data is generated/sent/copied/moved to the storage account, a new folder is created for each specific time period. This strategy organises data into a maintainable folder structure.

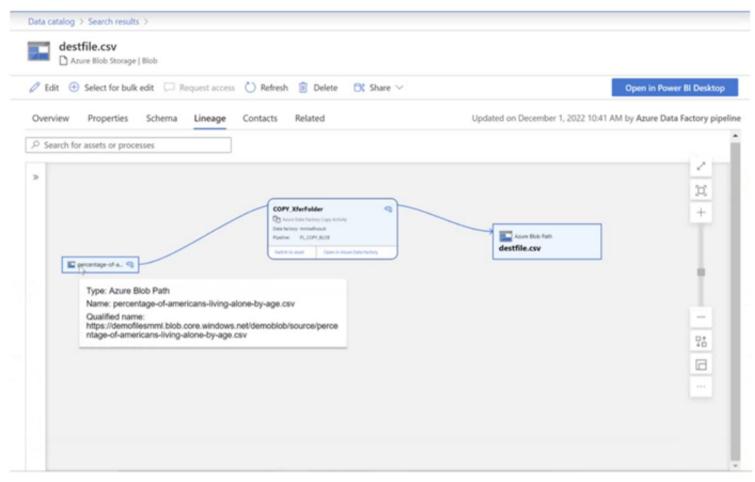
Reference: https://www.serverlesssql.com/optimisation/azurestoragefilteringusingfilepath/

NEW QUESTION 61

- (Exam Topic 3)

You have a Microsoft Purview account. The Lineage view of a CSV file is shown in the following exhibit.

https://www.surepassexam.com/DP-203-exam-dumps.html (303 New Questions)



How is the data for the lineage populated?

- A. manually
- B. by scanning data stores
- C. by executing a Data Factory pipeline

Answer: B

Explanation:

According to Microsoft Purview Data Catalog lineage user guide1, data lineage in Microsoft Purview is a core platform capability that populates the Microsoft Purview Data Map with data movement and transformations across systems2. Lineage is captured as it flows in the enterprise and stitched without gaps irrespective of its source2.

NEW QUESTION 65

- (Exam Topic 3)

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.

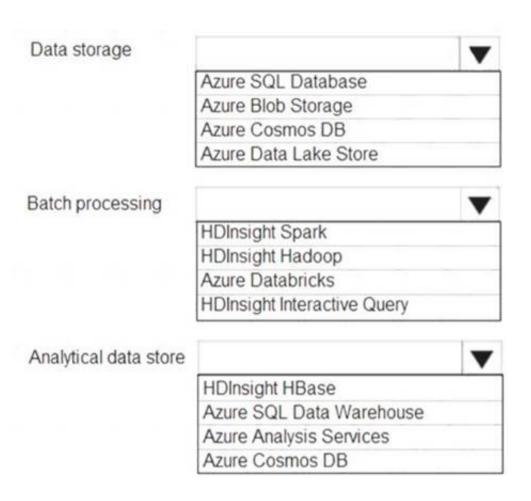
You need to identify the correct technologies to build the Lambda architecture.

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



A. MasteredB. Not Mastered

Answer: A

Explanation:

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 66

- (Exam Topic 3)

A company purchases IoT devices to monitor manufacturing machinery. The company uses an IoT appliance to communicate with the IoT devices. The company must be able to monitor the devices in real-time. You need to design the solution. What should you recommend?

- A. Azure Stream Analytics cloud job using Azure PowerShell
- B. Azure Analysis Services using Azure Portal
- C. Azure Data Factory instance using Azure Portal
- D. Azure Analysis Services using Azure PowerShell

Answer: C

Explanation:

Stream Analytics is a cost-effective event processing engine that helps uncover real-time insights from devices, sensors, infrastructure, applications and data quickly and easily.

Monitor and manage Stream Analytics resources with Azure PowerShell cmdlets and powershell scripting that execute basic Stream Analytics tasks. Reference:

https://cloudblogs.microsoft.com/sqlserver/2014/10/29/microsoft-adds-iot-streaming-analytics-data-production-a

NEW QUESTION 71

- (Exam Topic 3)

You have the following Azure Stream Analytics query.



WITH

step1 AS (SELECT * FROM input1 PARTITION BY StateID INTO 10), step2 AS (SELECT * FROM input2 PARTITION BY StateID INTO 10) SELECT * INTO output FROM step1 PARTITION BY StateID UNION SELECT * INTO output FROM step2 PARTITION BY StateID

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Statements		No
The query combines two streams of partitioned data.	0	0
The stream scheme key and count must match the output scheme.	0	0
Providing 60 streaming units will optimize the performance of the query.	0	0

A. Mastered B. Not Mastered

Answer: A

Explanation:

Box 1: No

Note: You can now use a new extension of Azure Stream Analytics SQL to specify the number of partitions of a stream when reshuffling the data. The outcome is a stream that has the same partition scheme. Please see below for an example: WITH step1 AS (SELECT * FROM [input1] PARTITION BY DeviceID INTO 10),

step2 AS (SELECT * FROM [input2] PARTITION BY DeviceID INTO 10)

SELECT * INTO [output] FROM step1 PARTITION BY DeviceID UNION step2 PARTITION BY DeviceID Note: The new extension of Azure Stream Analytics SQL includes a keyword INTO that allows you to specify the number of partitions for a stream when performing reshuffling using a PARTITION BY statement. Box 2: Yes

When joining two streams of data explicitly repartitioned, these streams must have the same partition key and partition count. Box 3: Yes Streaming Units (SUs) represents the computing resources that are allocated to execute a Stream Analytics job. The higher the number of SUs, the more CPU and memory resources are allocated for your job.

In general, the best practice is to start with 6 SUs for queries that don't use PARTITION BY. Here there are 10 partitions, so 6x10 = 60 SUs is good. Note: Remember, Streaming Unit (SU) count, which is the unit of scale for Azure Stream Analytics, must be adjusted so the number of physical resources available to the job can fit the partitioned flow. In general, six SUs is a good number to assign to each partition. In case there are insufficient resources assigned to the job, the system will only apply the repartition if it benefits the job. Reference:

https://azure.microsoft.com/en-in/blog/maximize-throughput-with-repartitioning-in-azure-stream-analytics/ https://docs.microsoft.com/en-us/azure/streamanalytics/stream-analytics-streaming-unit-consumption

NEW QUESTION 75

- (Exam Topic 3)

You have an enterprise data warehouse in Azure Synapse Analytics named DW1 on a server named Server1. You need to determine the size of the transaction log file for each distribution of DW1.

What should you do?

- A. On DW1, execute a query against the sys.database_files dynamic management view.
- B. From Azure Monitor in the Azure portal, execute a query against the logs of DW1.
- C. Execute a query against the logs of DW1 by using theGet-AzOperationalInsightsSearchResult PowerShell cmdlet.
- D. On the master database, execute a query against the sys.dm_pdw_nodes_os_performance_counters dynamic management view.

Answer: A

Explanation:

For information about the current log file size, its maximum size, and the autogrow option for the file, you can also use the size, max size, and growth columns for that log file in sys.database_files.

Reference:

https://docs.microsoft.com/en-us/sql/relational-databases/logs/manage-the-size-of-the-transaction-log-file



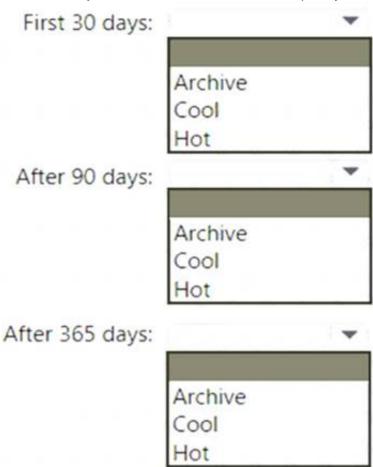
NEW QUESTION 80

- (Exam Topic 3)

You are designing an application that will use an Azure Data Lake Storage Gen 2 account to store petabytes of license plate photos from toll booths. The account will use zone-redundant storage (ZRS).

You identify the following usage patterns:

- The data will be accessed several times a day during the first 30 days after the data is created. The data must meet an availability SU of 99.9%.
- After 90 days, the data will be accessed infrequently but must be available within 30 seconds.
- After 365 days, the data will be accessed infrequently but must be available within five minutes.



A. Mastered

B. Not Mastered

Answer: A

Explanation:

Box 1: Hot

The data will be accessed several times a day during the first 30 days after the data is created. The data must meet an availability SLA of 99.9%.

Box 2: Cool

After 90 days, the data will be accessed infrequently but must be available within 30 seconds. Data in the Cool tier should be stored for a minimum of 30 days. When your data is stored in an online access tier (either Hot or Cool), users can access it immediately. The Hot tier is the best choice for data that is in active use, while the Cool tier is ideal for data that is accessed less frequently, but that still must be available for reading and writing.

Box 3: Cool

After 365 days, the data will be accessed infrequently but must be available within five minutes. Reference: https://docs.microsoft.com/en-us/azure/storage/blobs/access-tiers-overview https://docs.microsoft.com/en-us/azure/storage/blobs/archive-rehydrate-overview

NEW QUESTION 83

- (Exam Topic 3)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this scenario, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure Storage account that contains 100 GB of files. The files contain text and numerical values. 75% of the rows contain description data that has an average length of 1.1 MB.

You plan to copy the data from the storage account to an enterprise data warehouse in Azure Synapse Analytics.

You need to prepare the files to ensure that the data copies quickly. Solution: You convert the files to compressed delimited text files. Does this meet the goal?

A. Yes B. No

Answer: A

Explanation:

All file formats have different performance characteristics. For the fastest load, use compressed delimited text files.

Reference:

https://docs.microsoft.com/en-us/azure/sql-data-warehouse/guidance-for-loading-data

NEW QUESTION 85

- (Exam Topic 3)

You are planning a streaming data solution that will use Azure Databricks. The solution will stream sales transaction data from an online store. The solution has the following specifications:

- * The output data will contain items purchased, quantity, line total sales amount, and line total tax amount.
- * Line total sales amount and line total tax amount will be aggregated in Databricks.
- * Sales transactions will never be updated. Instead, new rows will be added to adjust a sale.



You need to recommend an output mode for the dataset that will be processed by using Structured Streaming. The solution must minimize duplicate data. What should you recommend?

- A. Append
- B. Update
- C. Complete

Answer: B

Explanation:

By default, streams run in append mode, which adds new records to the table. https://docs.databricks.com/delta/delta-streaming.html

NEW QUESTION 86

- (Exam Topic 3)

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. locally-redundant storage (LRS)
- D. geo-redundant storage (GRS)

Answer: B

Explanation:

Geo-redundant storage (with GRS or GZRS) replicates your data to another physical location in the secondary region to protect against regional outages. However, that data is available to be read only if the customer or Microsoft initiates a failover from the primary to secondary region. When you enable read access to the secondary region, your data is available to be read at all times, including in a situation where the primary region becomes unavailable.

https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy

NEW QUESTION 88

- (Exam Topic 3)

You have an Azure Synapse Analytics dedicated SQL pool that contains the users shown in the following table.

Name	Role
User1	Server admin
User2	db_datereader

User1 executes a query on the database, and the query returns the results shown in the following exhibit.

```
tbl.name as table_name,

typ.name as datatype,

c.is_masked,
c.masking_tunction

FROM sys.masked_columns AS c

INNER JOIN sys.tables AS tbl ON c.[object_id] = tbl.[object_id]

NNER JOIN sys.types typ ON c.user_type_id = typ.user_type_id

MHERE is_masked = 1;
```

Results Messages

	name	table_name	datatype	is_masked	masking_function
1	BirthDate	DimCustomer	date	1	default()
2	Gender	DimCustomer	nvarchar	1	default()
3	EmailAddress	DimCustomer	nvarchar	1	email()
4	YearlyIncome	DimCustomer	money	1	default()

User1 is the only user who has access to the unmasked data.

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.



https://www.surepassexam.com/DP-203-exam-dumps.html (303 New Questions)

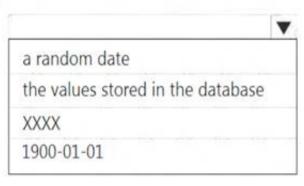
When User2 queries the YearlyIncome column,

the values returned will be [answer choice].

a random number
the values stored in the database
XXXX
0

When User1 queries the BirthDate column, the

values returned will be [answer choice].



A. Mastered

B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application, email Description automatically generated

Box 1: 0

The YearlyIncome column is of the money data type.

The Default masking function: Full masking according to the data types of the designated fields

Use a zero value for numeric data types (bigint, bit, decimal, int, money, numeric, smallint, smallmoney, tinyint, float, real).

Box 2: the values stored in the database

Users with administrator privileges are always excluded from masking, and see the original data without any mask.

Reference:

https://docs.microsoft.com/en-us/azure/azure-sql/database/dynamic-data-masking-overview

NEW QUESTION 91

- (Exam Topic 3)

A company plans to use Platform-as-a-Service (PaaS) to create the new data pipeline process. The process must meet the following requirements: Ingest:

- Access multiple data sources.
- Provide the ability to orchestrate workflow.
- Provide the capability to run SQL Server Integration Services packages.

Optimize

Optimize storage for big data workloads. Provide encryption of data at rest. Operate with no size limits.

Prepare and Train:

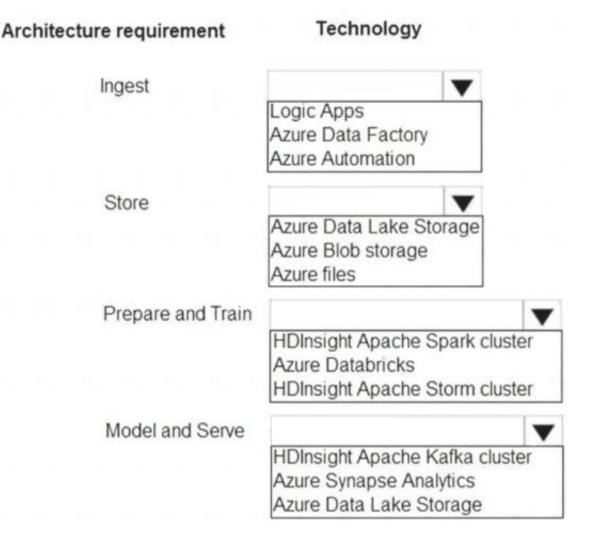
- Provide a fully-managed and interactive workspace for exploration and visualization.
- Provide the ability to program in R, SQL, Python, Scala, and Java.
- Provide seamless user authentication with Azure Active Directory. Model & Serve:
- Implement native columnar storage.
- Support for the SQL language
- Provide support for structured streaming. You need to build the data integration pipeline.

Which technologies should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



Answer Area



A. MasteredB. Not Mastered

Answer: A

Explanation:

Graphical user interface, application, table, email Description automatically generated

NEW QUESTION 94

- (Exam Topic 3)

You are designing a partition strategy for a fact table in an Azure Synapse Analytics dedicated SQL pool. The table has the following specifications:

- Contain sales data for 20,000 products.
- Use hash distribution on a column named ProducIID,
- Contain 2.4 billion records for the years 20l9 and 2020.

Which number of partition ranges provides optimal compression and performance of the clustered columnstore index?

A. 40

B. 240

C. 400

D. 2,400

Answer: A

Explanation:

Each partition should have around 1 millions records. Dedication SQL pools already have 60 partitions. We have the formula: Records/(Partitions*60)= 1 million Partitions= Records/(1 million * 60)

Partitions= $2.4 \times 1,000,000,000/(1,000,000 * 60) = 40$

Note: Having too many partitions can reduce the effectiveness of clustered columnstore indexes if each partition has fewer than 1 million rows. Dedicated SQL pools automatically partition your data into 60 databases. So, if you create a table with 100 partitions, the result will be 6000 partitions. Reference:

https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/best-practices-dedicated-sql-pool

NEW QUESTION 98

- (Exam Topic 3)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are designing an Azure Stream Analytics solution that will analyze Twitter data.

You need to count the tweets in each 10-second window. The solution must ensure that each tweet is counted only once.

Solution: You use a hopping window that uses a hop size of 10 seconds and a window size of 10 seconds. Does this meet the goal?

A. Yes B. No

Answer: B



Explanation:

Instead use a tumbling window. Tumbling windows are a series of fixed-sized, non-overlapping and contiguous time intervals. Reference:

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

NEW QUESTION 101

- (Exam Topic 3)

You have an Azure subscription that contains an Azure Synapse Analytics dedicated SQL pool named Pool1 and an Azure Data Lake Storage account named storage1. Storage1 requires secure transfers.

You need to create an external data source in Pool1 that will be used to read .orc files in storage1. How should you complete the code? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area

A. Mastered B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application, email Description automatically generated

Reference:

https://docs.microsoft.com/en-us/sql/t-sql/statements/create-external-data-source-transact-sql?view=azure-sqldw

NEW QUESTION 104

- (Exam Topic 3)

You are designing 2 solution that will use tables in Delta Lake on Azure Databricks. You need to minimize how long it takes to perform the following:

- *Queries against non-partitioned tables
- * Joins on non-partitioned columns

Which two options should you include in the solution? Each correct answer presents part of the solution. (Choose Correct Answer and Give explanation and References to Support the answers based from Data

Engineering on Microsoft Azure)

- A. Z-Ordering
- B. Apache Spark caching
- C. dynamic file pruning (DFP)
- D. the clone command

Answer: AC

Explanation:

According to the information I found on the web, two options that you should include in the solution to minimize how long it takes to perform queries and joins on non-partitioned tables are:

Z-Ordering: This is a technique to colocate related information in the same set of files. This co-locality is automatically used by Delta Lake in data-skipping algorithms. This behavior dramatically reduces the amount of data that Delta Lake on Azure Databricks needs to read123.

Apache Spark caching: This is a feature that allows you to cache data in memory or on disk for faster access. Caching can improve the performance of repeated queries and joins on the same data. You can cache Delta tables using the CACHE TABLE or CACHE LAZY commands.

To minimize the time it takes to perform queries against non-partitioned tables and joins on non-partitioned columns in Delta Lake on Azure Databricks, the following options should be included in the solution:

- * A. Z-Ordering: Z-Ordering improves query performance by co-locating data that share the same column values in the same physical partitions. This reduces the need for shuffling data across nodes during query execution. By using Z-Ordering, you can avoid full table scans and reduce the amount of data processed.
- * B. Apache Spark caching: Caching data in memory can improve query performance by reducing the amount of data read from disk. This helps to speed up subsequent queries that need to access the same data. When you cache a table, the data is read from the data source and stored in memory. Subsequent queries

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References:

Delta Lake on Databricks: https://docs.databricks.com/delta/index.html

can then read the data from memory, which is much faster than reading it from disk.

Best Practices for Delta Lake on

Databricks: https://databricks.com/blog/2020/05/14/best-practices-for-delta-lake-on-databricks.html

NEW QUESTION 105

- (Exam Topic 3)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You plan to create an Azure Databricks workspace that has a tiered structure. The workspace will contain the following three workloads:

- A workload for data engineers who will use Python and SQL.
- A workload for jobs that will run notebooks that use Python, Scala, and SOL.
- A workload that data scientists will use to perform ad hoc analysis in Scala and R.

The enterprise architecture team at your company identifies the following standards for Databricks environments:

- The data engineers must share a cluster.
- The job cluster will be managed by using a request process whereby data scientists and data engineers provide packaged notebooks for deployment to the cluster.
- All the data scientists must be assigned their own cluster that terminates automatically after 120 minutes of inactivity. Currently, there are three data scientists. You need to create the Databricks clusters for the workloads.

Solution: You create a Standard cluster for each data scientist, a Standard cluster for the data engineers, and a High Concurrency cluster for the jobs. Does this meet the goal?

A. Yes B. No

Answer: B

Explanation:

We need a High Concurrency cluster for the data engineers and the jobs.

Note: Standard clusters are recommended for a single user. Standard can run workloads developed in any language: Python, R, Scala, and SQL.

A high concurrency cluster is a managed cloud resource. The key benefits of high concurrency clusters are that they provide Apache Spark-native fine-grained sharing for maximum resource utilization and minimum query latencies.

Reference: https://docs.azuredatabricks.net/clusters/configure.html

NEW QUESTION 106

- (Exam Topic 3)

You are building an Azure Stream Analytics job to identify how much time a user spends interacting with a feature on a webpage.

The job receives events based on user actions on the webpage. Each row of data represents an event. Each event has a type of either 'start' or 'end'.

You need to calculate the duration between start and end events.

How should you complete the query? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.



A. Mastered

B. Not Mastered

Answer: A

Explanation:

Box 1: DATEDIFF

DATEDIFF function returns the count (as a signed integer value) of the specified datepart boundaries crossed between the specified startdate and enddate.

Syntax: DATEDIFF (datepart, startdate, enddate) Box 2: LAST

The LAST function can be used to retrieve the last event within a specific condition. In this example, the condition is an event of type Start, partitioning the search by PARTITION BY user and feature. This way, every user and feature is treated independently when searching for the Start event. LIMIT DURATION limits the search back in time to 1 hour between the End and Start events.

Example: SELECT

[user], feature, DATEDIFF(

second,



LAST(Time) OVER (PARTITION BY [user], feature LIMIT DURATION(hour,

1) WHEN Event = 'start'), Time) as duration

FROM input TIMESTAMP BY Time

WHERE

Event = 'end' Reference:

https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-stream-analytics-query-patterns

NEW QUESTION 111

- (Exam Topic 3)

You plan to use an Apache Spark pool in Azure Synapse Analytics to load data to an Azure Data Lake Storage Gen2 account.

You need to recommend which file format to use to store the data in the Data Lake Storage account. The solution must meet the following requirements:

- Column names and data types must be defined within the files loaded to the Data Lake Storage account.
- Data must be accessible by using queries from an Azure Synapse Analytics serverless SQL pool.
- Partition elimination must be supported without having to specify a specific partition. What should you recommend?

A. Delta Lake

B. JSON

C. CSV

D. ORC

Answer: D

NEW QUESTION 116

- (Exam Topic 3)

You are monitoring an Azure Stream Analytics job.

You discover that the Backlogged Input Events metric is increasing slowly and is consistently non-zero. You need to ensure that the job can handle all the events. What should you do?

- A. Change the compatibility level of the Stream Analytics job.
- B. Increase the number of streaming units (SUs).
- C. Remove any named consumer groups from the connection and use \$default.
- D. Create an additional output stream for the existing input stream.

Answer: B

Explanation:

Backlogged Input Events: Number of input events that are backlogged. A non-zero value for this metric implies that your job isn't able to keep up with the number of incoming events. If this value is slowly increasing or consistently non-zero, you should scale out your job. You should increase the Streaming Units. Note: Streaming Units (SUs) represents the computing resources that are allocated to execute a Stream Analytics job. The higher the number of SUs, the more CPU and memory resources are allocated for your job.

Reference:

https://docs.microsoft.com/bs-cyrl-ba/azure/stream-analytics/stream-analytics-monitoring

NEW QUESTION 119

- (Exam Topic 3)

You build a data warehouse in an Azure Synapse Analytics dedicated SQL pool.

Analysts write a complex SELECT query that contains multiple JOIN and CASE statements to transform data for use in inventory reports. The inventory reports will use the data and additional WHERE parameters depending on the report. The reports will be produced once daily.

You need to implement a solution to make the dataset available for the reports. The solution must minimize query times.

What should you implement?

A. a materialized view

B. a replicated table

C. in ordered clustered columnstore index

D. result set chaching

Answer: A

Explanation:

Materialized views for dedicated SQL pools in Azure Synapse provide a low maintenance method for complex analytical queries to get fast performance without any query change.

Note: When result set caching is enabled, dedicated SQL pool automatically caches query results in the user database for repetitive use. This allows subsequent query executions to get results directly from the persisted cache so recomputation is not needed. Result set caching improves query performance and reduces compute resource usage. In addition, queries using cached results set do not use any concurrency slots and thus do not count against existing concurrency limits. Reference:

https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/performance-tuning-materialized- https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/performance-tuning-result-set-cac

NEW QUESTION 123

- (Exam Topic 3)

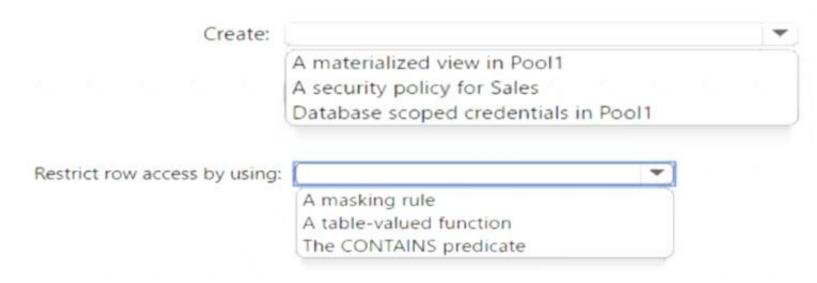
You have an Azure Synapse Analytics dedicated SQL pool named Pool1 that contains an external table named Sales. Sales contains sales data. Each row in Sales

contains data on a single sale, including the name of the salesperson.

You need to implement row-level security (RLS). The solution must ensure that the salespeople can access only their respective sales.

What should you do? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

https://www.surepassexam.com/DP-203-exam-dumps.html (303 New Questions)



A. Mastered

B. Not Mastered

Answer: A

Explanation:

Box 1: A security policy for sale

Here are the steps to create a security policy for Sales:

- Create a user-defined function that returns the name of the current user:
- CREATE FUNCTION dbo.GetCurrentUser()
- RETURNS NVARCHAR(128)
- AS
- **BEGIN**
- RETURN SUSER_SNAME();
- END;
- > Create a security predicate function that filters the Sales table based on the current user:
- CREATE FUNCTION dbo.SalesPredicate(@salesperson NVARCHAR(128))
- RETURNS TABLE
- > WITH SCHEMABINDING
- AS
- RETURN SELECT 1 AS access_result
- WHERE @salesperson = SalespersonName;
- Create a security policy on the Sales table that uses the SalesPredicate function to filter the data:
- CREATE SECURITY POLICY SalesFilter
- ADD FILTER PREDICATE dbo.SalesPredicate(dbo.GetCurrentUser()) ON dbo.Sales
- WITH (STATE = ON);

By creating a security policy for the Sales table, you ensure that each salesperson can only access their own sales data. The security policy uses a user-defined function to get the name of the current user and a security predicate function to filter the Sales table based on the current user.

Box 2: table-value function

to restrict row access by using row-level security, you need to create a table-valued function that returns a table of values that represent the rows that a user can access. You then use this function in a security

policy that applies a predicate on the table.

NEW QUESTION 124

- (Exam Topic 3)

You have an Azure subscription that contains a Microsoft Purview account named MP1, an Azure data factory named DF1, and a storage account named storage. MP1 is configured

10 scan storage1. DF1 is connected to MP1 and contains 3 dataset named DS1. DS1 references 2 file in storage.

In DF1, you plan to create a pipeline that will process data from DS1.

You need to review the schema and lineage information in MP1 for the data referenced by DS1.

Which two features can you use to locate the information? Each correct answer presents a complete solution. NOTE: Each correct answer is worth one point.

- A. the Storage browser of storage1 in the Azure portal
- B. the search bar in the Azure portal
- C. the search bar in Azure Data Factory Studio
- D. the search bar in the Microsoft Purview governance portal

Answer: CD

Explanation:

The search bar in the Microsoft Purview governance portal: This is a feature that allows you to search for assets in your data estate using keywords, filters, and facets. You can use the search bar to find the files in storage1 that are referenced by DS1, and then view their schema and lineage information in the asset details page12.

The search bar in Azure Data Factory Studio: This is a feature that allows you to search for datasets, linked services, pipelines, and other resources in your data factory. You can use the search bar to find DS1 in DF1, and then view its schema and lineage information in the dataset details page. You can also click on the Open in Purview button to open the corresponding asset in MP13.

The two features that can be used to locate the schema and lineage information for the data referenced by DS1 are the search bar in Azure Data Factory Studio and the search bar in the Microsoft Purview governance portal.



https://www.surepassexam.com/DP-203-exam-dumps.html (303 New Questions)

The search bar in Azure Data Factory Studio allows you to search for the dataset DS1 and view its properties and lineage. This can help you locate information about the source and destination data stores, as well as the transformations that were applied to the data.

The search bar in the Microsoft Purview governance portal allows you to search for the storage account and view its metadata, including schema and lineage information. This can help you understand the different data assets that are stored in the storage account and how they are related to each other.

The Storage browser of storage1 in the Azure portal may allow you to view the files that are stored in the storage account, but it does not provide lineage or schema information for those files. Similarly, the search bar in the Azure portal may allow you to search for resources in the Azure subscription, but it does not provide detailed information about the data assets themselves.

References:

- What is Azure Purview?
- Use Azure Data Factory Studio

NEW QUESTION 125

- (Exam Topic 2)

What should you recommend using to secure sensitive customer contact information?

- A. data labels
- B. column-level security
- C. row-level security
- D. Transparent Data Encryption (TDE)

Answer: B

Explanation:

Scenario: All cloud data must be encrypted at rest and in transit.

Always Encrypted is a feature designed to protect sensitive data stored in specific database columns from

access (for example, credit card numbers, national identification numbers, or data on a need to know basis). This includes database administrators or other privileged users who are authorized to access the database to perform management tasks, but have no business need to access the particular data in the encrypted columns. The data is always encrypted, which means the encrypted data is decrypted only for processing by client applications with access to the encryption key.

References:

https://docs.microsoft.com/en-us/azure/sql-database/sql-database-security-overview

NEW QUESTION 128

- (Exam Topic 2)

What should you do to improve high availability of the real-time data processing solution?

- A. Deploy identical Azure Stream Analytics jobs to paired regions in Azure.
- B. Deploy a High Concurrency Databricks cluster.
- C. Deploy an Azure Stream Analytics job and use an Azure Automation runbook to check the status of the job and to start the job if it stops.
- D. Set Data Lake Storage to use geo-redundant storage (GRS).

Answer: A

Explanation:

Guarantee Stream Analytics job reliability during service updates

Part of being a fully managed service is the capability to introduce new service functionality and improvements at a rapid pace. As a result, Stream Analytics can have a service update deploy on a weekly (or more frequent) basis. No matter how much testing is done there is still a risk that an existing, running job may break due to the introduction of a bug. If you are running mission critical jobs, these risks need to be avoided. You can reduce this risk by following Azure's paired region model.

Scenario: 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 Reference:

https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-job-reliability

NEW QUESTION 132

- (Exam Topic 1)

You need to ensure that the Twitter feed data can be analyzed in the dedicated SQL pool. The solution must meet the customer sentiment analytics requirements. Which three Transaction-SQL DDL commands should you run in sequence? To answer, move the appropriate commands from the list of commands to the answer area and arrange them in the correct order.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Commands

Answer Area

CREATE	EXTERNAL	DATA SOURCE
CREATE	EXTERNAL	FILE FORMAT
CREATE	EXTERNAL	TABLE
CREATE	EXTERNAL	TABLE AS SELECT
CREATE	DATABASE	SCOPED CREDENTIAL

A. Mastered



B. Not Mastered

Answer: A

Explanation:

Scenario: Allow Contoso users to use PolyBase in an Azure Synapse Analytics dedicated SQL pool to query the content of the data records that host the Twitter feeds. Data must be protected by using row-level security (RLS). The users must be authenticated by using their own Azure AD credentials.

Box 1: CREATE EXTERNAL DATA SOURCE

External data sources are used to connect to storage accounts. Box 2: CREATE EXTERNAL FILE FORMAT

CREATE EXTERNAL FILE FORMAT creates an external file format object that defines external data stored in Azure Blob Storage or Azure Data Lake Storage. Creating an external file format is a prerequisite for creating an external table.

Box 3: CREATE EXTERNAL TABLE AS SELECT

When used in conjunction with the CREATE TABLE AS SELECT statement, selecting from an external table imports data into a table within the SQL pool. In addition to the COPY statement, external tables are useful for loading data.

Reference:

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

NEW QUESTION 133

- (Exam Topic 1)

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-SSIS integration runtime
- B. self-hosted integration runtime
- C. Azure integration runtime

Answer: C

NEW QUESTION 137

- (Exam Topic 1)

You need to design a data storage structure 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.

Table type to store the product sales transactions: Hash Round-robin Replicated When creating the table for sales transactions: Configure a clustered index. Set the distribution column to product ID. Set the distribution column to the sales date.

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application, chat or text message Description automatically generated

Box 1: Hash Scenario:

Ensure that queries joining and filtering sales transaction records based on product ID complete as quickly as possible.

A hash distributed table can deliver the highest query performance for joins and aggregations on large tables. Box 2: Set the distribution column to the sales date. Scenario: 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.

Reference:

https://rajanieshkaushikk.com/2020/09/09/how-to-choose-right-data-distribution-strategy-for-azure-synapse/

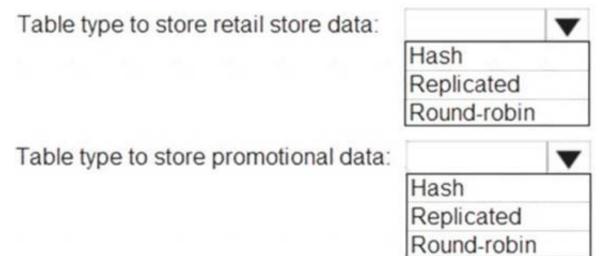
NEW QUESTION 142

- (Exam Topic 1)

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.



Answer: A

A. Mastered B. Not Mastered

Explanation:

Graphical user interface, text, application, table Description automatically generated

Box 1: Round-robin

Round-robin tables are useful for improving loading speed.

Scenario: Partition data that contains sales transaction records. Partitions must be designed to provide efficient loads by month.

Box 2: Hash

Hash-distributed tables improve query performance on large fact tables. Reference:

https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables-distribu

NEW QUESTION 144

- (Exam Topic 3)

You are developing a solution that will stream to Azure Stream Analytics. The solution will have both streaming data and reference data.

Which input type should you use for the reference data?

A. Azure Cosmos DB

B. Azure Blob storage

C. Azure IoT Hub

D. Azure Event Hubs

Answer: B

Explanation:

Stream Analytics supports Azure Blob storage and Azure SQL Database as the storage layer for Reference Data.

Reference:

https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-use-reference-data

NEW QUESTION 145

- (Exam Topic 3)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more

than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure Storage account that contains 100 GB of files. The files contain rows of text and numerical values. 75% of the rows contain description data that has an average length of 1.1 MB.

You plan to copy the data from the storage account to an enterprise data warehouse in Azure Synapse Analytics.

You need to prepare the files to ensure that the data copies quickly. Solution: You copy the files to a table that has a columnstore index. Does this meet the goal?

A. Yes

B. No

Explanation:

Answer: B

Instead convert the files to compressed delimited text files. Reference:

https://docs.microsoft.com/en-us/azure/sql-data-warehouse/guidance-for-loading-data

NEW QUESTION 150

- (Exam Topic 3)

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.



https://www.surepassexam.com/DP-203-exam-dumps.html (303 New Questions)

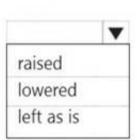
NOTE: Each correct selection is worth one point.

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:



A. Mastered

B. Not Mastered

Answer: A

Explanation:

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 153

- (Exam Topic 3)

You have an Azure Synapse Analytics serverless SQL pool named Pool1 and an Azure Data Lake Storage Gen2 account named storage1. The AllowedBlobpublicAccess porperty is disabled for storage1.

You need to create an external data source that can be used by Azure Active Directory (Azure AD) users to access storage1 from Pool1. What should you create first?

A. an external resource pool

B. a remote service binding

C. database scoped credentials

D. an external library

Answer: C

Explanation:

Security

User must have SELECT permission on an external table to read the data. External tables access underlying Azure storage using the database scoped credential defined in data source.

Note: A database scoped credential is a record that contains the authentication information that is required to connect to a resource outside SQL Server. Most credentials include a Windows user and password.

Reference:

https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/develop-tables-external-tables https://docs.microsoft.com/en-us/sql/t-sql/statements/create-database-scoped-credential-transact-sql

NEW QUESTION 157

- (Exam Topic 3)

You have an enterprise data warehouse in Azure Synapse Analytics.

You need to monitor the data warehouse to identify whether you must scale up to a higher service level to accommodate the current workloads Which is the best metric to monitor?

More than one answer choice may achieve the goal. Select the BEST answer.

A. Data 10 percentage

B. CPU percentage

C. DWU used

D. DWU percentage

Answer: C

NEW QUESTION 158

- (Exam Topic 3)

You have an Azure Synapse Analytics dedicated SQL pool named SA1 that contains a table named Table1. You need to identify tables that have a high



percentage of deleted rows. What should you run? A)
sys.pdw_nodes_column_store_segments
B)
sys.dm_db_column_store_row_group_operational_stats C)
sys.pdw_nodes_column_store_row_groups
D) sys.dm_db_column_store_row_group_physical_stats

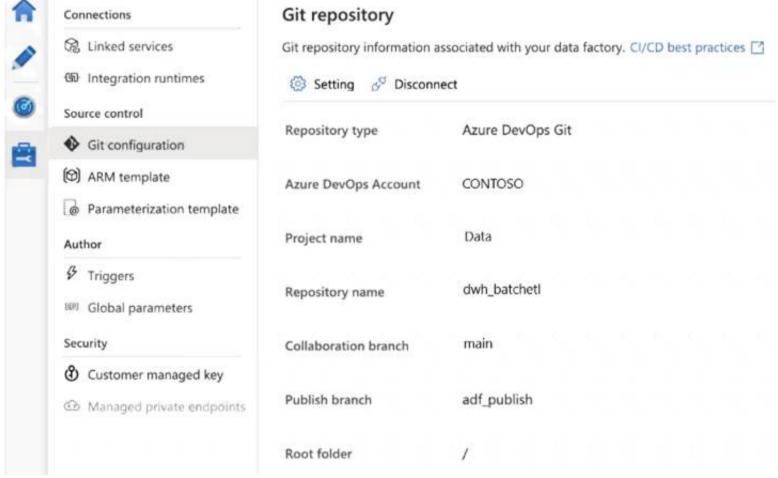
- A. Option
- B. Option
- C. Option
- D. Option

Answer: B

NEW QUESTION 160

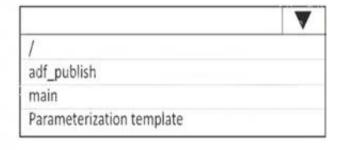
- (Exam Topic 3)

You configure version control for an Azure Data Factory instance as shown in the following exhibit.



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.

Azure Resource Manager (ARM) templates for the pipeline assets are stored in [answer choice]



A Data Factory Azure Resource Manager (ARM) template named contososales can be found in [answer choice]



A. Mastered

B. Not Mastered

Answer: A

Explanation:

Letter Description automatically generated



Box 1: adf_publish

The Publish branch is the branch in your repository where publishing related ARM templates are stored and updated. By default, it's adf_publish.

Box 2: / dwh_batchetl/adf_publish/contososales

Note: RepositoryName (here dwh_batchetl): Your Azure Repos code repository name. Azure Repos projects contain Git repositories to manage your source code as your project grows. You can create a new repository or use an existing repository that's already in your project.

Reference:

https://docs.microsoft.com/en-us/azure/data-factory/source-control

NEW QUESTION 164

- (Exam Topic 3)

You plan to monitor an Azure data factory by using the Monitor & Manage app.

You need to identify the status and duration of activities that reference a table in a source database.

Which three actions should you perform in sequence? To answer, move the actions from the list of actions to the answer are and arrange them in the correct order.

From the Data Factory monitoring app, add the Source user property to the Activity Runs table. From the Data Factory monitoring app, add the Source user property to the Pipeline Runs table. From the Data Factory authoring UI, publish the pipelines. From the Data Factory monitoring app, add a linked service to the Pipeline Runs table. From the Data Factory authoring UI, generate a user property for Source on all activities. From the Data Factory authoring UI, generate a

A. Mastered

B. Not Mastered

user property for Source on all datasets.

Answer: A

Explanation:

Step 1: From the Data Factory authoring UI, generate a user property for Source on all activities. Step 2: From the Data Factory monitoring app, add the Source user property to Activity Runs table.

You can promote any pipeline activity property as a user property so that it becomes an entity that you can

monitor. For example, you can promote the Source and Destination properties of the copy activity in your pipeline as user properties. You can also select Auto Generate to generate the Source and Destination user properties for a copy activity.

Step 3: From the Data Factory authoring UI, publish the pipelines

Publish output data to data stores such as Azure SQL Data Warehouse for business intelligence (BI) applications to consume.

References:

https://docs.microsoft.com/en-us/azure/data-factory/monitor-visually

NEW QUESTION 166

- (Exam Topic 3)

You have an Azure Data Factory pipeline named Pipeline1!. Pipelinel contains a copy activity that sends data to an Azure Data Lake Storage Gen2 account. Pipeline 1 is executed by a schedule trigger.

You change the copy activity sink to a new storage account and merge the changes into the collaboration branch.

After Pipelinel executes, you discover that data is NOT copied to the new storage account. You need to ensure that the data is copied to the new storage account. What should you do?

- A. Publish from the collaboration branch.
- B. Configure the change feed of the new storage account
- C. Create a pull request.
- D. Modify the schedule trigger.

Answer: A

Explanation:

CI/CD lifecycle

- A development data factory is created and configured with Azure Repos Git. All developers should have permission to author Data Factory resources like pipelines and datasets.
- A developer creates a feature branch to make a change. They debug their pipeline runs with their most recent changes
- After a developer is satisfied with their changes, they create a pull request from their feature branch to the main or collaboration branch to get their changes reviewed by peers.
- After a pull request is approved and changes are merged in the main branch, the changes get published to the development factory. Reference: https://docs.microsoft.com/en-us/azure/data-factory/continuous-integration-delivery

NEW QUESTION 169



- (Exam Topic 3)

You are designing an Azure Synapse Analytics dedicated SQL pool.

You need to ensure that you can audit access to Personally Identifiable information (PII). What should you include in the solution?

A. dynamic data masking

B. row-level security (RLS)

C. sensitivity classifications

D. column-level security

Answer: C

Explanation:

Data Discovery & Classification is built into Azure SQL Database, Azure SQL Managed Instance, and Azure Synapse Analytics. It provides basic capabilities for discovering, classifying, labeling, and reporting the sensitive data in your databases.

Your most sensitive data might include business, financial, healthcare, or personal information. Discovering and classifying this data can play a pivotal role in your organization's information-protection approach. It can serve as infrastructure for:

- Helping to meet standards for data privacy and requirements for regulatory compliance.
- Various security scenarios, such as monitoring (auditing) access to sensitive data.
- Controlling access to and hardening the security of databases that contain highly sensitive data.

Reference:

https://docs.microsoft.com/en-us/azure/azure-sql/database/data-discovery-and-classification-overview

NEW QUESTION 172

- (Exam Topic 3)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure Synapse Analytics dedicated SQL pool that contains a table named Table1. You have files that are ingested and loaded into an Azure Data Lake Storage Gen2 container named

container1.

You plan to insert data from the files in container1 into Table1 and transform the data. Each row of data in the files will produce one row in the serving layer of Table1.

You need to ensure that when the source data files are loaded to container1, the DateTime is stored as an additional column in Table1.

Solution: You use a dedicated SQL pool to create an external table that has an additional DateTime column. Does this meet the goal?

A. Yes

B. No

Answer: B

Explanation:

Instead use the derived column transformation to generate new columns in your data flow or to modify existing fields.

Reference:

https://docs.microsoft.com/en-us/azure/data-factory/data-flow-derived-column

NEW QUESTION 174

- (Exam Topic 3)

You have an Azure Synapse Analystics dedicated SQL pool that contains a table named Contacts. Contacts contains a column named Phone.

You need to ensure that users in a specific role only see the last four digits of a phone number when querying the Phone column.

What should you include in the solution?

A. a default value

B. dynamic data masking

C. row-level security (RLS)

D. column encryption

E. table partitions

Answer: B

Explanation:

Dynamic data masking helps prevent unauthorized access to sensitive data by enabling customers to designate how much of the sensitive data to reveal with minimal impact on the application layer. It's a policy-based security feature that hides the sensitive data in the result set of a query over designated database fields, while the data in the database is not changed.

Reference:

https://docs.microsoft.com/en-us/azure/azure-sql/database/dynamic-data-masking-overview

NEW QUESTION 175

- (Exam Topic 3)

You have an Azure subscription that contains an Azure Databricks workspace. The workspace contains a notebook named Notebook1. In Notebook1, you create an Apache Spark DataFrame named df_sales that contains the following columns:

- Customer
- Salesperson
- Region
- Amount

You need to identify the three top performing salespersons by amount for a region named HQ.

How should you complete the query? 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.

https://www.surepassexam.com/DP-203-exam-dumps.html (303 New Questions)

Answer Area

agg(col('SelesPerson'))

df_sales.filter(col('Region')=='HQ').

filter(col('SalesPerson'))

groupBy(col('SalesPerson'))

groupBy(col('TotalAmount'))

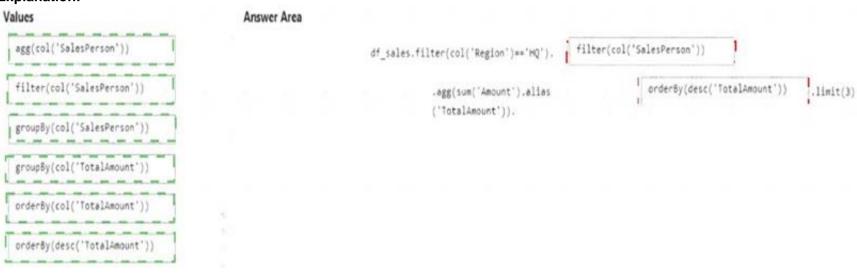
orderBy(desc('TotalAmount'))
.agg(sum('Amount').alias
('TotalAmount')).

A. Mastered

B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 178

- (Exam Topic 3)

You are designing a highly available Azure Data Lake Storage solution that will include geo-zone-redundant storage (GZRS). You need to monitor for replication delays that can affect the recovery point objective (RPO). What should you include in the monitoring solution?

A. availability

B. Average Success E2E Latency

C. 5xx: Server Error errors

D. Last Sync Time

Answer: D

Explanation:

Because geo-replication is asynchronous, it is possible that data written to the primary region has not yet been written to the secondary region at the time an outage occurs. The Last Sync Time property indicates the last time that data from the primary region was written successfully to the secondary region. All writes made to the primary region before the last sync time are available to be read from the secondary location. Writes made to the primary region after the last sync time property may or may not be available for reads yet.

Reference:

https://docs.microsoft.com/en-us/azure/storage/common/last-sync-time-get

NEW QUESTION 182

- (Exam Topic 3)

You are designing a highly available Azure Data Lake Storage solution that will induce geo-zone-redundant storage (GZRS). You need to monitor for replication delays that can affect the recovery point objective (RPO). What should you include m the monitoring solution?

A. Last Sync Time

- B. Average Success Latency
- C. Error errors
- D. availability

Answer: A

Explanation:

Because geo-replication is asynchronous, it is possible that data written to the primary region has not yet been written to the secondary region at the time an outage occurs. The Last Sync Time property indicates the last time that data from the primary region was written successfully to the secondary region. All writes made to the primary region before the last sync time are available to be read from the secondary location. Writes made to the primary region after the last sync time property may or may not be available for reads yet.

Reference:

https://docs.microsoft.com/en-us/azure/storage/common/last-sync-time-get



NEW QUESTION 185

- (Exam Topic 3)

You are deploying a lake database by using an Azure Synapse database template.

You need to add additional tables to the database. The solution must use the same grouping method as the template tables.

'Which grouping method should you use?

A. business area

B. size

C. facts and dimensions

D. partition style

Answer: A

Explanation:

Business area: This is how the Azure Synapse database templates group tables by default. Each template consists of one or more enterprise templates that contain tables grouped by business areas. For example, the Retail template has business areas such as Customer, Product, Sales, and Store123. Using the same grouping method as the template tables can help you maintain consistency and compatibility with the industry-specific data model. https://techcommunity.microsoft.com/t5/azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-templates-in-azure-synapse-analytics-blog/database-analytics-blog/database-templates-in-azure-synapse

NEW QUESTION 186

- (Exam Topic 3)

You are designing an Azure Databricks interactive cluster. The cluster will be used infrequently and will be configured for auto-termination.

You need to ensure that the cluster configuration is retained indefinitely after the cluster is terminated. The solution must minimize costs. What should you do?

A. Clone the cluster after it is terminated.

- B. Terminate the cluster manually when processing completes.
- C. Create an Azure runbook that starts the cluster every 90 days.
- D. Pin the cluster.

Answer: D

Explanation:

To keep an interactive cluster configuration even after it has been terminated for more than 30 days, an administrator can pin a cluster to the cluster list. References:

https://docs.azuredatabricks.net/clusters/clusters-manage.html#automatic-termination

NEW QUESTION 187

- (Exam Topic 3)

You are designing a financial transactions table in an Azure Synapse Analytics dedicated SQL pool. The table will have a clustered columnstore index and will include the following columns:

- TransactionType: 40 million rows per transaction type
- CustomerSegment: 4 million per customer segment
- TransactionMonth: 65 million rows per month
- AccountType: 500 million per account type

You have the following query requirements:

- Analysts will most commonly analyze transactions for a given month.
- Transactions analysis will typically summarize transactions by transaction type, customer segment, and/or account type

You need to recommend a partition strategy for the table to minimize query times. On which column should you recommend partitioning the table?

- A. CustomerSegment
- B. AccountType
- C. TransactionType
- D. TransactionMonth

Answer: C

Explanation:

For optimal compression and performance of clustered columnstore tables, a minimum of 1 million rows per distribution and partition is needed. Before partitions are created, dedicated SQL pool already divides each table into 60 distributed databases.

Example: Any partitioning added to a table is in addition to the distributions created behind the scenes. Using this example, if the sales fact table contained 36 monthly partitions, and given that a dedicated SQL pool has 60 distributions, then the sales fact table should contain 60 million rows per month, or 2.1 billion rows when all months are populated. If a table contains fewer than the recommended minimum number of rows per partition, consider using fewer partitions in order to increase the number of rows per partition.

NEW QUESTION 190

- (Exam Topic 3)

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.

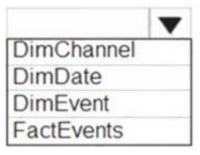
EventCategory:

DimChannel
DimDate
DimEvent
FactEvents

ChannelGrouping:

DimChannel
DimDate
DimEvent
FactEvents

TotalEvents:



A. Mastered

B. Not Mastered

Answer: A

Explanation:

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 191

- (Exam Topic 3)

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

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

A. Mastered

B. Not Mastered

Answer: A

Explanation:

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 196

- (Exam Topic 3)

You are designing a statistical analysis solution that will use custom proprietary1 Python functions on near real-time data from Azure Event Hubs.

You need to recommend which Azure service to use to perform the statistical analysis. The solution must minimize latency.

What should you recommend?

- A. Azure Stream Analytics
- B. Azure SQL Database
- C. Azure Databricks
- D. Azure Synapse Analytics

Answer: A

Explanation:

Reference

https://docs.microsoft.com/en-us/azure/event-hubs/process-data-azure-stream-analytics

NEW QUESTION 200

- (Exam Topic 3)

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

Answer: BE

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.

Graphical user interface, application, email Description automatically generated

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
				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 204

- (Exam Topic 3)

You have an Azure Databricks workspace and an Azure Data Lake Storage Gen2 account named storage! New files are uploaded daily to storage1.

- Incrementally process new files as they are upkorage1 as a structured streaming source. The solution must meet the following requirements:
- Minimize implementation and maintenance effort.
- Minimize the cost of processing millions of files.
- Support schema inference and schema drift. Which should you include in the recommendation?
- A. Auto Loader
- B. Apache Spark FileStreamSource
- C. COPY INTO
- D. Azure Data Factory

Answer: D

NEW QUESTION 206

- (Exam Topic 3)

You are designing a dimension table in an Azure Synapse Analytics dedicated SQL pool.

You need to create a surrogate key for the table. The solution must provide the fastest query performance. What should you use for the surrogate key?

A. a GUID column

B. a sequence object

C. an IDENTITY column

Answer: C

Explanation:

Use IDENTITY to create surrogate keys using dedicated SQL pool in AzureSynapse Analytics.

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://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables-identity

NEW QUESTION 209

- (Exam Topic 3)

You have a partitioned table in an Azure Synapse Analytics dedicated SQL pool. You need to design queries to maximize the benefits of partition elimination. What should you include in the Transact-SQL queries?

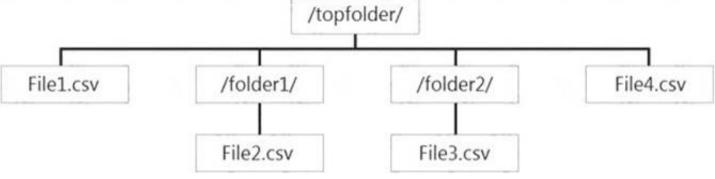
- A. JOIN
- **B. WHERE**
- C. DISTINCT
- D. GROUP BY

Answer: B

NEW QUESTION 210

- (Exam Topic 3)

You have files and folders in Azure Data Lake Storage Gen2 for an Azure Synapse workspace as shown in the following exhibit.



You create an external table named ExtTable that has LOCATION='/topfolder/'.

When you query ExtTable by using an Azure Synapse Analytics serverless SQL pool, which files are returned?

- A. File2.csv and File3.csv only
- B. File1.csv and File4.csv only
- C. File1.csv, File2.csv, File3.csv, and File4.csv
- D. File1.csv only

Answer: B

Explanation:

To run a T-SQL query over a set of files within a folder or set of folders while treating them as a single entity or rowset, provide a path to a folder or a pattern (using wildcards) over a set of files or folders. Reference:

https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/query-data-storage#query-multiple-files-or-folders

NEW QUESTION 215

- (Exam Topic 3)

You have an Azure Data Lake Storage Gen 2 account named storage1.

You need to recommend a solution for accessing the content in storage1. The solution must meet the following requirements:

- List and read permissions must be granted at the storage account level.
- Additional permissions can be applied to individual objects in storage1.
- Security principals from Microsoft Azure Active Directory (Azure AD), part of Microsoft Entra, must be used for authentication.

What should you use? To answer, drag the appropriate components to the correct requirements. Each component 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.

Components	Answer Area
Access control lists (ACLs)	To grant permissions at the storage account level:
Role-based access control (RBAC) roles	To grant permissions at the object level:
Shared access signatures (SAS)	
Shared account keys	

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Box 1: Role-based access control (RBAC) roles

List and read permissions must be granted at the storage account level.

Security principals from Microsoft Azure Active Directory (Azure AD), part of Microsoft Entra, must be used for authentication.

Role-based access control (Azure RBAC)

Azure RBAC uses role assignments to apply sets of permissions to security principals. A security principal is an object that represents a user, group, service principal, or managed identity that is defined in Azure Active Directory (AD). A permission set can give a security principal a "coarse-grain" level of access such as read or write access to all of the data in a storage account or all of the data in a container.

Box 2: Access control lists (ACLs)

Additional permissions can be applied to individual objects in storage1. Access control lists (ACLs)



ACLs give you the ability to apply "finer grain" level of access to directories and files. An ACL is a permission construct that contains a series of ACL entries. Each ACL entry associates security principal with an access level.

Reference: https://learn.microsoft.com/en-us/azure/storage/blobs/data-lake-storage-access-control-model

NEW QUESTION 219

- (Exam Topic 3)

You have an Azure subscription.

You plan to build a data warehouse in an Azure Synapse Analytics dedicated SQL pool named pool1 that will contain staging tables and a dimensional model. Pool1 will contain the following tables.

Name	Number of rows	Update frequency	Description
Common. Date	7,300	New rows inserted yearly	 Contains one row per date for the last 20 years Contains columns named Year, Month, Quarter, and IsWeekend
Marketing.WebSessions	1,500,500,000	Hourly inserts and updates	Fact table that contains counts of and updates sessions and page views, including foreign key values for date, channel, device, and medium
Staging.WebSessions	300,000	Hourly truncation and inserts	Staging table for web session data, truncation and including descriptive fields for inserts channel, device, and medium

You need to design the table storage for pool1. The solution must meet the following requirements:

- Maximize the performance of data loading operations to Staging. WebSessions.
- Minimize query times for reporting queries against the dimensional model.

Which type of table distribution should you use for each table? To answer, drag the appropriate table distribution types to the correct tables. Each table distribution type 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.

Table distribution types	Answer Area
Hash	Common.Data:
Replicated	Marketing.Web.Sessions:
Round-robin	Staging. Web.Sessions:
Round-robin	Staging, web.sessions.

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Box 1: Replicated

The best table storage option for a small table is to replicate it across all the Compute nodes. Box 2: Hash

Hash-distribution improves query performance on large fact tables. Box 3: Round-robin

Round-robin distribution is useful for improving loading speed.

Reference:

https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables-distribu

NEW QUESTION 223

- (Exam Topic 3)

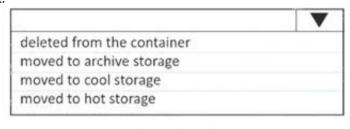
You store files in an Azure Data Lake Storage Gen2 container. The container has the storage policy shown in the following exhibit.



```
"rules"; [
   "enabled": true,
    name": "contosorule",
     type": "Lifecycle",
     definition": {
       actions":
         version": {
           delete": {
             'daysAfterCreationGreaterThan": 60
         baseBlob": {
           "tierToCool": {
             'daysAfterModificationGreaterThan": 30
        ilters": {
          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:



The storage policy applies to [answer choice]:



A. MasteredB. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application Description automatically generated

Box 1: moved to cool storage

The ManagementPolicyBaseBlob.TierToCool property gets or sets the function to tier blobs to cool storage. Support blobs currently at Hot tier.

Box 2: container1/contoso.csv As defined by prefixMatch.

prefixMatch: An array of strings for prefixes to be matched. Each rule can define up to 10 case-senstive prefixes. A prefix string must start with a container name. Reference:

https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.management.storage.fluent.models.managementpoli

NEW QUESTION 227

- (Exam Topic 3)

You have an Azure Synapse Analytics pipeline named Pipeline1 that contains a data flow activity named Dataflow1.

Pipeline1 retrieves files from an Azure Data Lake Storage Gen 2 account named storage1.

Dataflow1 uses the AutoResolveIntegrationRuntime integration runtime configured with a core count of 128. You need to optimize the number of cores used by Dataflow1 to accommodate the size of the files in storage1. What should you configure? To answer, select the appropriate options in the answer area.

To Pipeline1, add:

A custom activity
A Get Metadata activity
An If Condition activity

For Dataflow1, set the core count by using:

Dynamic content
Parameters
User properties



Answer: A

A. MasteredB. Not Mastered

Explanation:

Box 1: A Get Metadata activity

Dynamically size data flow compute at runtime

The Core Count and Compute Type properties can be set dynamically to adjust to the size of your incoming source data at runtime. Use pipeline activities like Lookup or Get Metadata in order to find the size of the source dataset data. Then, use Add Dynamic Content in the Data Flow activity properties.

Box 2: Dynamic content

Reference: https://docs.microsoft.com/en-us/azure/data-factory/control-flow-execute-data-flow-activity

NEW QUESTION 231

- (Exam Topic 3)

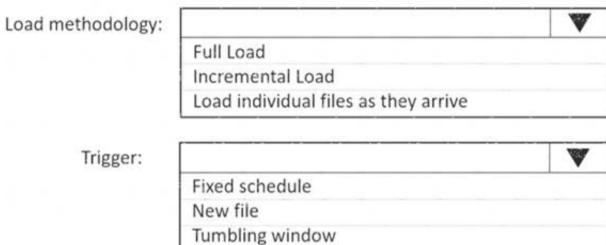
You have an Azure Storage account that generates 200,000 new files daily. The file names have a format of {YYYY}/{MM}/{DD}/{HH}/{CustomerID}.csv.

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 area.

NOTE: Each correct selection is worth one point.



A. MasteredB. Not Mastered

Answer: A

Explanation:

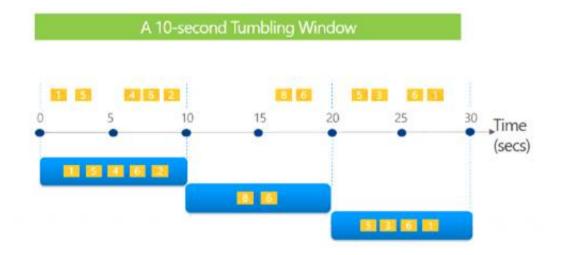
Table Description automatically generated

Box 1: Incremental load Box 2: Tumbling window

Tumbling windows are a series of fixed-sized, non-overlapping and contiguous time intervals. The following diagram illustrates a stream with a series of events and how they are mapped into 10-second tumbling windows.

Timeline Description automatically generated

Tell me the count of tweets per time zone every 10 seconds



SELECT TimeZone, COUNT(*) AS Count
FROM TwitterStream TIMESTAMP BY CreatedAt
GROUP BY TimeZone, TumblingWindow(second, 10)

Reference:

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

NEW QUESTION 234

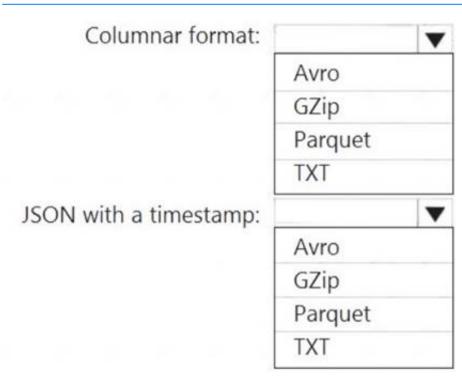
- (Exam Topic 3)

You need to output files from Azure Data Factory.

Which file format should you use for each type of output? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.





A. Mastered

B. Not Mastered

Answer: A

Explanation:

Box 1: Parquet

Parquet stores data in columns, while Avro stores data in a row-based format. By their very nature,

column-oriented data stores are optimized for read-heavy analytical workloads, while row-based databases are best for write-heavy transactional workloads.

Box 2: Avro

An Avro schema is created using JSON format. AVRO supports timestamps.

Note: Azure Data Factory supports the following file formats (not GZip or TXT).

- Avro format
- Binary format
- Delimited text format
- Excel format
- JSON format
- ORC format
- Parquet format
- XML format

Reference:

https://www.datanami.com/2018/05/16/big-data-file-formats-demystified

NEW QUESTION 235

- (Exam Topic 3)

You have an Azure Synapse Analytics dedicated SQL pool named Pool1. Pool1 contains a table named table1. You load 5 TB of data intotable1.

You need to ensure that columnstore compression is maximized for table1. Which statement should you execute?

A. ALTER INDEX ALL on table1 REORGANIZE

- B. ALTER INDEX ALL on table1 REBUILD
- C. DBCC DBREINOEX (table1)
- D. DBCC INDEXDEFRAG (pool1,tablel)

Answer: B

Explanation:

Columnstore and columnstore archive compression

Columnstore tables and indexes are always stored with columnstore compression. You can further reduce the size of columnstore data by configuring an additional compression called archival compression. To perform archival compression, SQL Server runs the Microsoft XPRESS compression algorithm on the data. Add or remove archival compression by using the following data compression types:

Use COLUMNSTORE_ARCHIVE data compression to compress columnstore data with archival compression.

Use COLUMNSTORE data compression to decompress archival compression. The resulting data continue to be compressed with columnstore compression. To add archival compression, use ALTER TABLE (Transact-SQL) or ALTER INDEX (Transact-SQL) with the REBUILD option and DATA COMPRESSION = COLUMNSTORE_ARCHIVE.

Reference: https://learn.microsoft.com/en-us/sql/relational-databases/data-compression/data-compression

NEW QUESTION 239

- (Exam Topic 3)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure Synapse Analytics dedicated SQL pool that contains a table named Table1. You have files that are ingested and loaded into an Azure Data Lake Storage Gen2 container named

container1

You plan to insert data from the files in container1 into Table1 and transform the data. Each row of data in the files will produce one row in the serving layer of Table1.



You need to ensure that when the source data files are loaded to container1, the DateTime is stored as an additional column in Table1. Solution: You use an Azure Synapse Analytics serverless SQL pool to create an external table that has an additional DateTime column. Does this meet the goal?

A. Yes B. No

Answer: B

Explanation:

Instead use the derived column transformation to generate new columns in your data flow or to modify existing fields.

Reference:

https://docs.microsoft.com/en-us/azure/data-factory/data-flow-derived-column

NEW QUESTION 240

- (Exam Topic 3)

You have an Azure data factory named ADM that contains a pipeline named Pipelwe1 Pipeline! must execute every 30 minutes with a 15-minute offset. Vou need to create a trigger for Pipehne1. The trigger must meet the following requirements:

- Backfill data from the beginning of the day to the current time.
- If Pipeline1 fairs, ensure that the pipeline can re-execute within the same 30-mmute period.
- Ensure that only one concurrent pipeline execution can occur.
- Minimize de4velopment and configuration effort Which type of trigger should you create?

A. schedule

- B. event-based
- C. manual
- D. tumbling window

Answer: A

NEW QUESTION 243

- (Exam Topic 3)

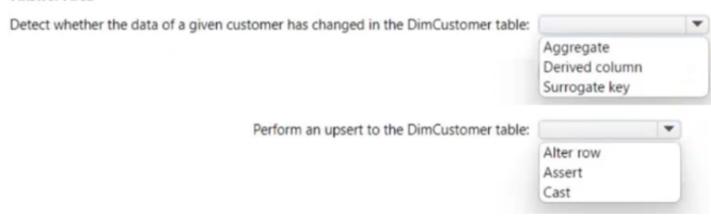
You are developing an Azure Synapse Analytics pipeline that will include a mapping data flow named Dataflow1. Dataflow1 will read customer data from an external source and use a Type 1 slowly changing dimension (SCO) when loading the data into a table named DimCustomer1 in an Azure Synapse Analytics dedicated SQL pool.

You need to ensure that Dataflow1 can perform the following tasks:

- * Detect whether the data of a given customer has changed in the DimCustomer table.
- Perform an upsert to the DimCustomer table.

Which type of transformation should you use for each task? To answer, select the appropriate options in the answer area NOTE; Each correct selection is worth one point.

Answer Area



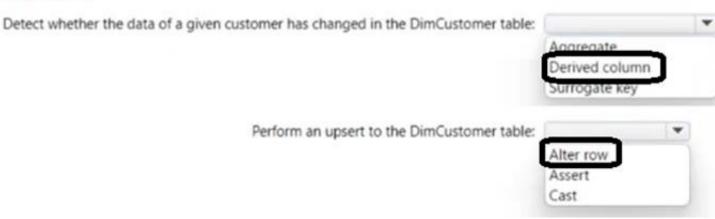
A. Mastered

B. Not Mastered

Answer: A

Explanation:

Answer Area



NEW QUESTION 244



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