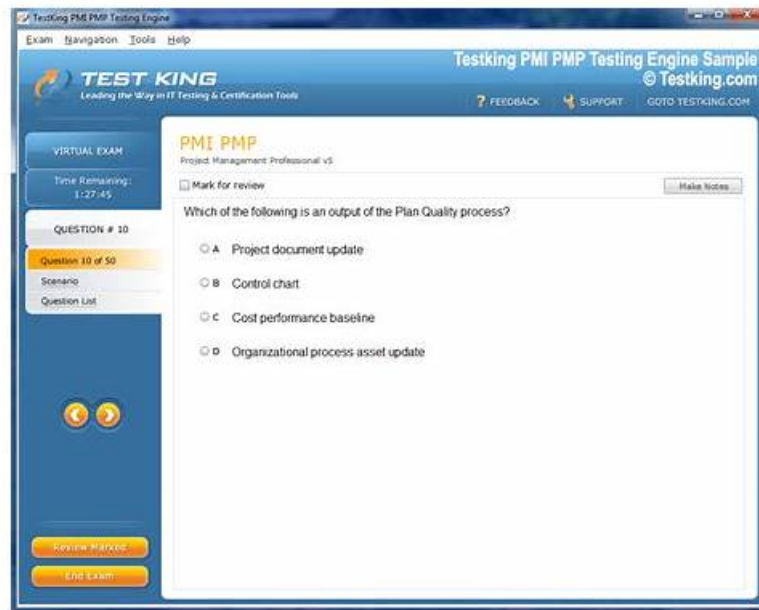


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Microsoft Data Engineering on Microsoft Azure Sample Questions (Q228-Q233):

NEW QUESTION # 228

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

Answer: D

Explanation:

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 # 229


You have a SQL pool in Azure Synapse.

You plan to load data from Azure Blob storage to a staging table. Approximately 1 million rows of data will be loaded daily. The table will be truncated before each daily load.

You need to create the staging table. The solution must minimize how long it takes to load the data to the staging table.

How should you configure the table? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Distribution:  Microsoft ▼

Hash
Replicated
Round-robin

Indexing: ▼


Clustered
Clustered columnstore
Heap

Partitioning: ▼

Date
None

Answer:

Explanation:

Distribution:  ▼

- Hash
- Replicated
- Round-robin

Indexing: ▼

- Clustered
- Clustered columnstore
- Heap

Partitioning: ▼

- Date
- None

Reference:

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

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


NEW QUESTION # 230

You need to design the partitions 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.

Partition product sales transactions data by:

 Microsoft

▼

- Sales date
- Product ID
- Promotion ID

Store product sales transactions data in:

▼

- An Azure Synapse Analytics dedicated SQL pool
- An Azure Synapse Analytics serverless SQL pool
- An Azure Data Lake Storage Gen2 account linked to an Azure Synapse Analytics workspace

Answer:

Explanation:

Partition product sales transactions data by:

Sales date
Product ID
Promotion ID

Store product sales transactions data in:

An Azure Synapse Analytics dedicated SQL pool
An Azure Synapse Analytics serverless SQL pool
An Azure Data Lake Storage Gen2 account linked to an Azure Synapse Analytics workspace

Reference:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-overview-what-is>

NEW QUESTION # 231

You are designing an Azure Databricks table. The table will ingest an average of 20 million streaming events per day.

You need to persist the events in the table for use in incremental load pipeline jobs in Azure Databricks. The solution must minimize storage costs and incremental load times.

What should you include in the solution?

- A. Include a watermark column.
- B. Sink to Azure Queue storage.
- C. Use a JSON format for physical data storage.
- D. Partition by DateTime fields.

Answer: D

Explanation:

The Databricks ABS-AQS connector uses Azure Queue Storage (AQS) to provide an optimized file source that lets you find new files written to an Azure Blob storage (ABS) container without repeatedly listing all of the files.

This provides two major advantages:

Lower latency: no need to list nested directory structures on ABS, which is slow and resource intensive.

Lower costs: no more costly LIST API requests made to ABS.

Reference:

<https://docs.microsoft.com/en-us/azure/databricks/spark/latest/structured-streaming/aqs>

NEW QUESTION # 232

You have an Azure Databricks resource.

You need to log actions that relate to changes in compute for the Databricks resource.

Which Databricks services should you log?

- A. clusters
- B. DBFS
- C. SSH
- D. workspace

Answer: D

Explanation:

E jobs

Explanation:

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