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QUESTION 1

You have a Microsoft Azure SQL data warehouse that has a fact table named FactOrder. FactOrder contains three columns named CustomerId, OrderId, and OrderDateKey. FactOrder is hash distributed on CustomerId. OrderId is the unique

identifier for FactOrder.

FactOrder contains 3 million rows.

Orders are distributed evenly among different customers from a table named dimCustomers that contains 2 million rows.

You often run queries that join FactOrder and dimCustomers by selecting and grouping by the OrderDateKey column.

You add 7 million rows to FactOrder. Most of the new records have a more recent OrderDateKey value than the previous records.

You need to reduce the execution time of queries that group on OrderDateKey and that join dimCustomers and FactOrder.

What should you do?

A. Change the distribution for the FactOrder table to round robin.

B. Update the statistics for the OrderDateKey column.

C. Change the distribution for the FactOrder table to be based on OrderId.

D. Change the distribution for the dimCustomers table to OrderDateKey.

Correct Answer: B

QUESTION 2

You are developing an application that uses Microsoft Azure Stream Analytics.

You have data structures that are defined dynamically.

You want to enable consistency between the logical methods used by stream processing and batch processing.

You need to ensure that the data can be integrated by using consistent data points.

What should you use to process the data?

A. a vectorized Microsoft SQL Server Database Engine

B. directed acyclic graph (DAG)

C. Apache Spark queries that use updateStateByKey operators

D. Apache Spark queries that use mapWithState operators

Correct Answer: D

QUESTION 3

Note: This question is part of a series of questions that present the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is

exactly the same in each question in this series.

Start of repeated scenario

You are migrating an existing on-premises data warehouse named LocalDW to Microsoft Azure. You will use an Azure SQL data warehouse named AzureDW for data storage and an Azure Data Factory named AzureDF for extract,

transformation, and load (ETL) functions.

For each table in LocalDW, you create a table in AzureDW.

On the on-premises network, you have a Data Management Gateway.

Some source data is stored in Azure Blob storage. Some source data is stored on an on- premises Microsoft SQL Server instance. The instance has a table named Table1.

After data is processed by using AzureDF, the data must be archived and accessible forever. The archived data must meet a Service Level Agreement (SLA) for availability of 99 percent. If an Azure region fails, the archived data must be

available for reading always. The storage solution for the archived data must minimize costs.

End of repeated scenario.

You need to define the schema of Table1 in AzureDF.

What should you create?

A. a gateway

B. a linked service

C. a dataset

D. a pipeline

Correct Answer: C

QUESTION 4

DRAG DROP

You are troubleshooting job performance and failure issues for Microsoft Azure Data Lake Analytics jobs.

You need to perform the following tasks:

Which tool should you use for each task? To answer, drag the appropriate tools to the correct tasks. Each tool 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.

Select and Place:

Tools	Answer Area
Diagnostic logs	View the start time and the end time of queries: [Tool]
Job Browser	Identify the job steps that have the highest number of write operations: [Tool]
Vertex Execution View	

Correct Answer:

Tools	Answer Area
Diagnostic logs	View the start time and the end time of queries: Job Browser
Job Browser	Identify the job steps that have the highest number of write operations: Job Browser
Vertex Execution View	

References:

https://docs.microsoft.com/en-us/azure/data-lake-analytics/data-lake-analytics-data-lake- tools-view-jobs

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QUESTION 5

DRAG DROP

You have IoT devices that produce the following output.

```javascript
sourcecode language='javascript' padlinenumbers='true']
[{
        "devID": "8656787",
        "timestamp": "2017-05-31T10:21:00",
        "readings": [{
            "type": "SensorA",
            "value": 18.965
        }, {
            "type": "SensorB",
            "value": 72.9157
        }, {
            "type": "SensorC",
            "value": 1524.672
        }
      ]
    }
  ]
}
]
[/sourcecode]
```

You need to use Microsoft Azure Stream Analytics to convert the output into the tabular format described in the following table.

Timestamp	DevId	SensorA	SensorB	SensorC
2017:05:31T10:21:00Z	8656787	18.965	72.9157	1524.672

How should you complete the Stream Analytics 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.

NOTE: Each correct selection is worth one point.

Select and Place:

Values

Cross Appply
GetArrayElement
GetArrayElements
Outer Apply

Answer Area

```sql
[sourcecode language='sql' ]
SELECT
     i.arrayvalue.timestamp,
     i.arrayvalue.devId,
     udf.getValue('SensorA', i.arrayvalue.readings) as SensorA,
     udf.getValue('SensorB', i.arrayvalue.readings) as SensorB,
     udf.getValue('SensorC', i.arrayvalue.readings) as SensorC
FROM input
     [ Value ]          [ Value ]          (input.devices) as i
[/sourcecode]
```

Correct Answer:

Values

GetArrayElement
Outer Apply

Answer Area

```sql
[sourcecode language='sql' ]
SELECT
     i.arrayvalue.timestamp,
     i.arrayvalue.devId,
     udf.getValue('SensorA', i.arrayvalue.readings) as SensorA,
     udf.getValue('SensorB', i.arrayvalue.readings) as SensorB,
     udf.getValue('SensorC', i.arrayvalue.readings) as SensorC
FROM input
     [ Cross Appply ]   [ GetArrayElements ]   (input.devices) as i
[/sourcecode]
```

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