70-475 ^{Q&As}

Designing and Implementing Big Data Analytics Solutions

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QUESTION 1

You are designing an Internet of Thing: (IoT) solution intended to identify trends. The solution requires the real-time analysis of data originating from sensors. The results of the analysis will be stored in a SQL database.

You need to recommend a data processing solution that uses the Transact-SQL language.

Which data processing solution should you recommend?

A. Microsoft Azure Stream Analytics

B. Microsoft SQL Server Integration Services (SSIS)

C. Microsoft Azure Machine Learning

D. Microsoft Azure HDInsight Hadoop clusters

Correct Answer: A

QUESTION 2

You have a Microsoft Azure SQL data warehouse named DW1.

A department in your company creates an Azure SQL database named DB1. DB1 is a data mart.

Each night, you need to insert new rows into 9.000 tables in DB1 from changed data in DW1. The solution must minimize costs.

What should you use to move the data from DW1 to DB1, and then to import the changed data to DB1? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Move the data from DW1 to DB1: ▼

| Azure Data Factory |
| Azure Stream Analytics |
| Microsoft SQL Server Integration Services |

Import the data to DB1: ▼

| The BULK INSERT statement |
| PolyBase |
| Lazy Loading |

Correct Answer:

Answer Area

Move the data from DW1 to DB1: [▼]

Azure Data Factory
Azure Stream Analytics
Microsoft SQL Server Integration Services

Import the data to DB1: [▼]

The BULK INSERT statement
PolyBase
Lazy Loading

Box 1: Azure Data Factory

Use the Copy Activity in Azure Data Factory to move data to/from Azure SQL Data Warehouse.

Box 2: The BULK INSERT statement

Reference: https://docs.microsoft.com/en-us/azure/data-factory/data-factory-azure-sql-data-warehouse-connector

QUESTION 3

Your company has 2,000 servers.

You plan to aggregate all of the log files from the servers in a central repository that uses Microsoft Azure HDInsight. Each log file contains approximately one million records. All of the files use the .log file name extension.

The following is a sample of the entries in the log files.

2017-02-03 20:26:41 SampleClass3 [ERROR] verbose detail for id

In Apache Hive, you need to create a data definition and a query capturing the number of records that have an error level of [ERROR].
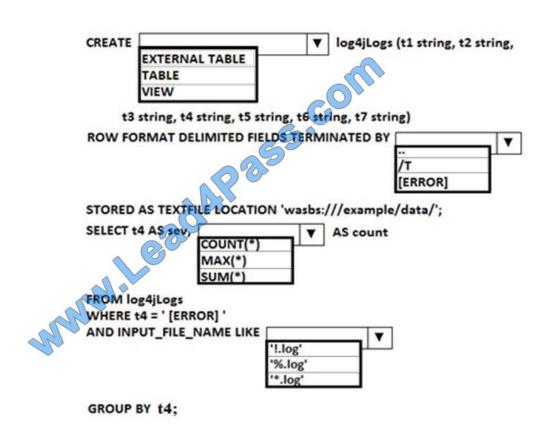
What should you do? To answer, select the appropriate options in the answer area.

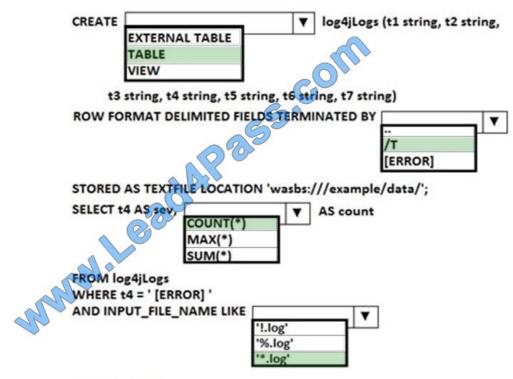NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

CREATE [▼] log4jLogs (t1 string, t2 string,

```
EXTERNAL TABLE
TABLE
VIEW
```

t3 string, t4 string, t5 string, t6 string, t7 string)
ROW FORMAT DELIMITED FIELDS TERMINATED BY [▼]

```
..
/T
[ERROR]
```

STORED AS TEXTFILE LOCATION 'wasbs:///example/data/';

SELECT t4 AS sev, [▼] AS count

```
COUNT(*)
MAX(*)
SUM(*)
```

FROM log4jLogs
WHERE t4 = ' [ERROR] '
AND INPUT_FILE_NAME LIKE [▼]

```
'!.log'
'%.log'
'*.log'
```

GROUP BY t4;

Correct Answer:

Answer Area

CREATE [▼] log4jLogs (t1 string, t2 string,

```
EXTERNAL TABLE
TABLE
VIEW
```

t3 string, t4 string, t5 string, t6 string, t7 string)
ROW FORMAT DELIMITED FIELDS TERMINATED BY [▼]

```
..
/T
[ERROR]
```

STORED AS TEXTFILE LOCATION 'wasbs:///example/data/';

SELECT t4 AS sev, [▼] AS count

```
COUNT(*)
MAX(*)
SUM(*)
```

FROM log4jLogs
WHERE t4 = ' [ERROR] '
AND INPUT_FILE_NAME LIKE [▼]

```
'!.log'
'%.log'
'*.log'
```

GROUP BY t4;

Box 1: table

Box 2: /t

Apache Hive example:

CREATE TABLE raw (line STRING)

ROW FORMAT DELIMITED FIELDS TERMINATED BY \\'\t\\' LINES TERMINATED BY \\'\n\\';

Box 3: count(*)

Box 4: \\'*.log\\'

Reference: https://cwiki.apache.org/confluence/display/Hive/CompressedStorage

QUESTION 4

You have a Microsoft Azure Data Factory that loads data to an analytics solution.

You receive an alert that an error occurred during the last processing of a data stream.

You debug the problem and solve an error.

You need to process the data stream that caused the error.

What should you do?

A. From Azure Cloud Shell, run the az dla job command.

B. From Azure Cloud Shell, run the az batch job enable command.

C. From PowerShell, run the Resume-AzureRmDataFactoryPipeline cmdlet.

D. From PowerShell, run the Set-AzureRmDataFactorySliceStatus cmdlet.

Correct Answer: D

ADF operates on data in batches known as slices. Slices are obtained by querying data over a date-time window--for example, a slice may contain data for a specific hour, day, or week. References: https://blogs.msdn.microsoft.com/bigda tasupport/2016/08/31/rerunning-many-slices-and-activities-in-azure-data-factory/

QUESTION 5

You are designing a solution based on the lambda architecture.

You need to recommend which technology to use for the serving layer.

What should you recommend?

A. Apache Storm

B. Kafka

C. Microsoft Azure DocumentDB

D. Apache Hadoop

Correct Answer: C

The Serving Layer is a bit more complicated in that it needs to be able to answer a single query request against two or more databases, processing platforms, and data storage devices. Apache Druid is an example of a cluster-based tool that can marry the Batch and Speed layers into a single answerable request.

Reference: https://en.wikipedia.org/wiki/Lambda_architecture

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