Custom View Settings

Question #5 *Topic 2*

HOTSPOT -

You are processing streaming data from vehicles that pass through a toll booth.

You need to use Azure Stream Analytics to return the license plate, vehicle make, and hour the last vehicle passed during each 10-minute window.

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

NOTE: Each correct selection is worth one point.

Hot Area:

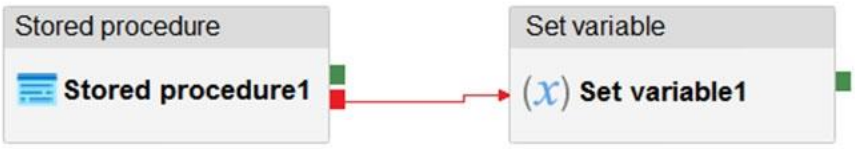
Answer Area

```
WITH LastInWindow AS
(
        SELECT
                [ ▼ ] (Time) AS LastEventTime
                  COUNT
                  MAX
                  MIN
                  TOPONE
        FROM
                Input TIMESTAMP BY Time
        GROUP BY
                [ ▼ ] (minute, 10)
                  HoppingWindow
                  SessionWindow
                  SlidingWindow
                  TumblingWindow
)
SELECT
        Input.License_plate,
        Input.Make,
        Input.Time
FROM
        Input TIMESTAMP BY Time
        INNER JOIN LastInWindow
        ON [ ▼ ] (minute, Input, LastInWindow) BETWEEN 0 AND 10
                  DATEADD
                  DATEDIFF
                  DATENAME
                  DATEPART
AND Input.Time = LastInWindow.LastEventTime
```

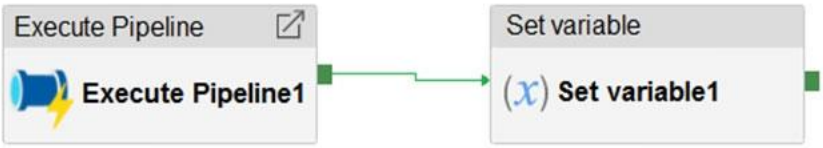
Question #6 *Topic 2*

You have an Azure Data Factory instance that contains two pipelines named Pipeline1 and Pipeline2.

Pipeline1 has the activities shown in the following exhibit.



Pipeline2 has the activities shown in the following exhibit.



You execute Pipeline2, and Stored procedure1 in Pipeline1 fails.

What is the status of the pipeline runs?

A. Pipeline1 and Pipeline2 succeeded.

B. Pipeline1 and Pipeline2 failed.

C. Pipeline1 succeeded and Pipeline2 failed.

D. Pipeline1 failed and Pipeline2 succeeded.

HOTSPOT -

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.

Store:

- 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.

Hot Area:

Answer Area

Architecture requirement	Technology
Ingest	Logic Apps / Azure Data Factory / Azure Automation
Store	Azure Data Lake Storage / Azure Blob storage / Azure files
Prepare and Train	HDInsight Apache Spark cluster / Azure Databricks / HDInsight Apache Storm cluster
Model and Serve	HDInsight Apache Kafka cluster / Azure Synapse Analytics / Azure Data Lake Storage

Question #8 *Topic 2*

DRAG DROP -

You have the following table named Employees.

first_name	last_name	hire_date	employee_type
Jane	Doe	2019-08-23	new
Ben	Smith	2017-12-15	Standard

You need to calculate the employee_type value based on the hire_date value.

How should you complete the Transact-SQL statement? 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

CASE

ELSE

OVER

PARTITION BY

ROW_NUMBER

Answer Area

```
SELECT
     *,
     [          ]
       WHEN hire_date >= '2019-01-01' THEN 'New'
       [          ] 'Standard'
     END AS employee_type
FROM
     employees
```

DRAG DROP -

You have an Azure Synapse Analytics workspace named WS1.

You have an Azure Data Lake Storage Gen2 container that contains JSON-formatted files in the following format.

```
{
     "id": "66532691-ab20-11ea-8b1d-936b3ec64e54",
     "context": {
          "data": {
               "eventTime": "2020-06-10T13:43:34.553Z",
               "samplingRate": "100.0",
               "isSynthetic": "false"
          },
          "session": {
               "isFirst": "false",
               "id": "38619c14-7a23-4687-8268-95862c5326b1"
          },
          "custom": {
               "dimensions": [
                    {
                         "customerInfo": {
                              "ProfileType": "ExpertUser",
                              "RoomName": "",
                              "CustomerName": "diamond",
                              "UserName": "XXXX@yahoo.com"
               }
          },
          {
                         "customerInfo" {
                              "ProfileType": "Novice",
                              "RoomName": "",
                              "CustomerName": "topaz",
                              "UserName": "XXXX@outlook.com"
                         }
                    }
               ]
          }
     }
}
```

You need to use the serverless SQL pool in WS1 to read the files.

How should you complete the Transact-SQL statement? 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

- opendatasource
- openjson
- openquery
- openrowset

Answer Area

```
select*

FROM
[                ] (
     BULK 'https://contoso.blob.core.windows.net/contosodw',
     FORMAT= 'CSV',
     fieldterminator = '0x0b',
     fieldquote = '0x0b',
     rowterminator = '0x0b'
)
with (id varchar(50),
     contextdateventTime varchar(50) '$.context.data.eventTime',
     contextdatasamplingRate varchar(50) '$.context.data.samplingRate',
     contextdataisSynthetic varchar(50) '$.context.data.isSynthetic'.
     contextsessionisFirst varchar(50) '$.context.session.isFirst',
     contextsession varchar(50) '$.context.session.id',
     contextcustomdimensions varchar(max) '$.context.custom.dimensions'

) as q
cross apply [                ] (contextcustomdimensions)

with ( ProfileType varchar(50) '$.customerInfo.ProfileType',
          RoomName varchar(50) '$.customerInfo.RoomName',
          CustomerName varchar(50) '$.customerInfo.CustomerName',
          UserName varchar(50) '$.customerInfo.UserName'
     )
```

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