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Perform Big Data Engineering on Microsoft Cloud Services

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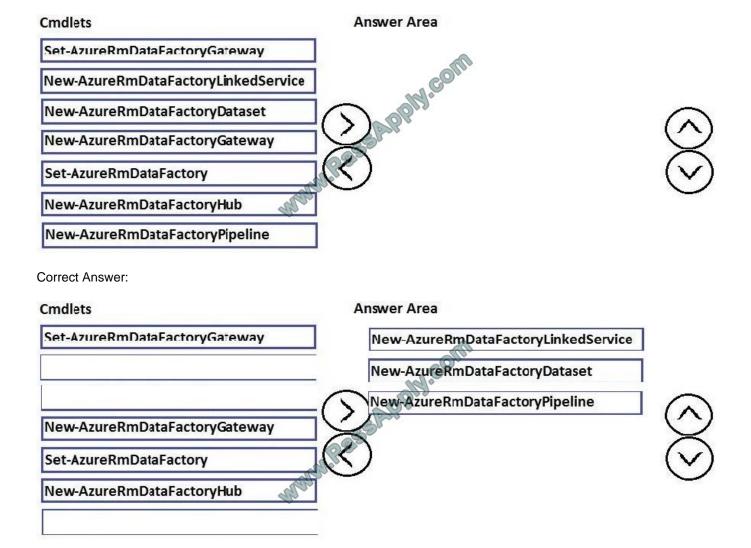
QUESTION 1

DRAG DROP

You have an Apache Hive database in a Microsoft Azure HDInsight cluster.

You create an Azure Data Factory named DF1.

You need to transform the data in the Hive database and to output the data to Azure Blob storage.

Which three cmdlets should you run in sequence? To answer, move the appropriate cmdlets from the list of cmdlets to the answer area and arrange them in the correct order.

Select and Place:

Cmdlets	Answer Area
Set-AzureRmDataFactoryGateway	
New-AzureRmDataFactoryLinkedService	
New-AzureRmDataFactoryDataset	
New-AzureRmDataFactoryGateway	
Set-AzureRmDataFactory	
New-AzureRmDataFactoryHub	
New-AzureRmDataFactoryPipeline	

Correct Answer:

Cmdlets	Answer Area
Set-AzureRmDataFactoryGateway	New-AzureRmDataFactoryLinkedService
	New-AzureRmDataFactoryDataset
	New-AzureRmDataFactoryPipeline
New-AzureRmDataFactoryGateway	
Set-AzureRmDataFactory	
New-AzureRmDataFactoryHub	

References: https://docs.microsoft.com/en-us/powershell/module/azurerm.datafactories/new-azurermdatafactorypipeline?view=azurermps-4.4.0 https://github.com/aelij/azure-content/blob/master/articles/data-factory/data-factory-build- your-first-pipeline-using-powershell.md

QUESTION 2

You plan to use Microsoft Azure Event Hubs to ingest sensor data. You plan to use Azure Stream Analytics to analyze the data in real time and to send the output directly to Azure Data Lake Store.

You need to write events to the Data Lake Store in batches.

What should you use?

A. Apache Storm in Azure HDInsight

B. Stream Analytics

C. Microsoft SQL Server Integration Services (SSIS)

D. the Azure CLI

Correct Answer: B

QUESTION 3

You have an on-premises Microsoft SQL Server instance.

You plan to copy a table from the instance to a Microsoft Azure Storage account.

You need to ensure that you can copy the table by using Azure Data Factory.

Which service should you deploy?

A. an on-premises data gateway

B. Azure Application Gateway

C. Data Management Gateway

D. a virtual network gateway

Correct Answer: C

QUESTION 4

HOTSPOT

You have a Microsoft Azure Data Lake Analytics service.

You have a file named Employee.tsv that contains data on employees. Employee.tsv contains seven columns named EmpId, Start, FirstName, LastName, Age, Department, and Title.

You need to create a Data Lake Analytics jobs to transform Employee.tsv, define a schema for the data, and output the data to a CSV file. The outputted data must contain only employees who are in the sales department. The Age column
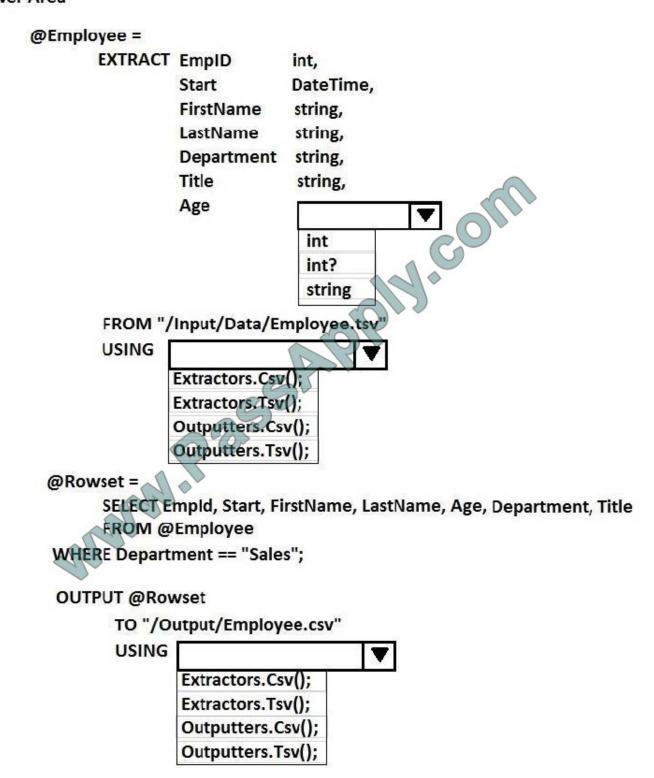
must allow NULL.

How should you complete the U-SQL code segment? To answer, select the appropriate options in the answer area.

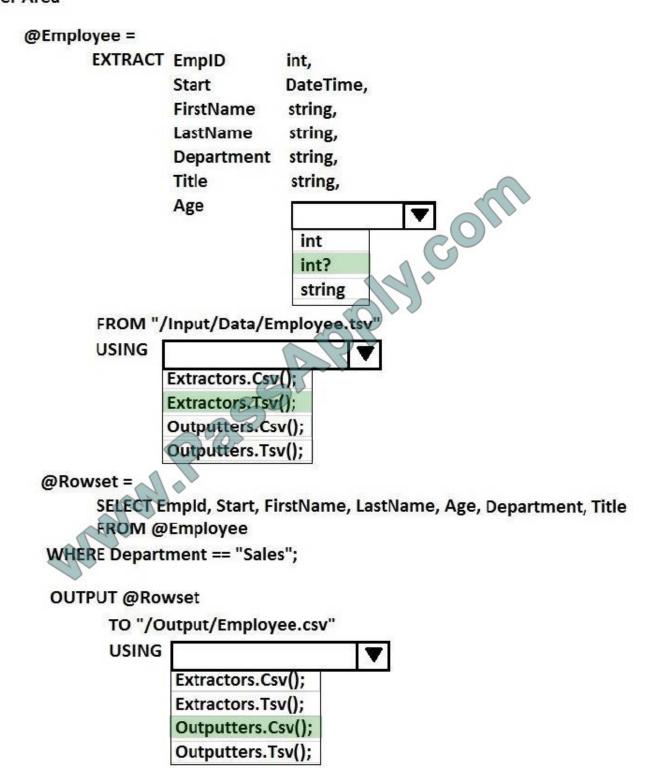NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
@Employee =
        EXTRACT  EmpID        int,
                 Start        DateTime,
                 FirstName    string,
                 LastName     string,
                 Department   string,
                 Title        string,
                 Age          [           ▼]
                              ┌─────────────┐
                              │ int         │
                              │ int?        │
                              │ string      │
                              └─────────────┘
        FROM "/Input/Data/Employee.tsv"
        USING  [              ▼]
               ┌──────────────────────┐
               │ Extractors.Csv();    │
               │ Extractors.Tsv();    │
               │ Outputters.Csv();    │
               │ Outputters.Tsv();    │
               └──────────────────────┘

@Rowset =
        SELECT EmpId, Start, FirstName, LastName, Age, Department, Title
        FROM @Employee
WHERE Department == "Sales";

        OUTPUT @Rowset
                TO "/Output/Employee.csv"
                USING  [              ▼]
                       ┌──────────────────────┐
                       │ Extractors.Csv();    │
                       │ Extractors.Tsv();    │
                       │ Outputters.Csv();    │
                       │ Outputters.Tsv();    │
                       └──────────────────────┘
```

Correct Answer:

Answer Area

```
@Employee =
        EXTRACT  EmpID        int,
                 Start        DateTime,
                 FirstName    string,
                 LastName     string,
                 Department   string,
                 Title        string,
                 Age          [                    ▼]
                              ┌──────────────┐
                              │ int          │
                              │ int?         │
                              │ string       │
                              └──────────────┘
        FROM "/Input/Data/Employee.tsv"
        USING        [                    ▼]
                     ┌────────────────────┐
                     │ Extractors.Csv();  │
                     │ Extractors.Tsv();  │
                     │ Outputters.Csv();  │
                     │ Outputters.Tsv();  │
                     └────────────────────┘
@Rowset =
        SELECT EmpId, Start, FirstName, LastName, Age, Department, Title
        FROM @Employee
WHERE Department == "Sales";

OUTPUT @Rowset
        TO "/Output/Employee.csv"
        USING        [                    ▼]
                     ┌────────────────────┐
                     │ Extractors.Csv();  │
                     │ Extractors.Tsv();  │
                     │ Outputters.Csv();  │
                     │ Outputters.Tsv();  │
                     └────────────────────┘
```

References: https://docs.microsoft.com/en-us/azure/data-lake-analytics/data-lake-analytics-u-sql-get- started

QUESTION 5

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 a table named Table1 that contains 3 billion rows. Table1 contains data from the last 36 months.

At the end of every month, the oldest month of data is removed based on a column named DateTime.

You need to minimize how long it takes to remove the oldest month of data.

Solution: You implement round robin for table distribution. Does this meet the goal?

A. Yes

B. No

Correct Answer: B

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