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The most attractive thing about a learning platform is not the size of his question bank, nor the amount of learning resources, but more importantly, it is necessary to have a good control over the annual propositional trend. The DP-203 quiz guide through

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Microsoft Data Engineering on Microsoft Azure Sample Questions (Q293-Q298):

NEW QUESTION # 293
You have an Azure Stream Analytics job that is a Stream Analytics project solution in Microsoft Visual Studio. The job accepts data generated by IoT devices in the JSON format.
You need to modify the job to accept data generated by the IoT devices in the Protobuf format.
Which three actions should you perform from Visual Studio on sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
Change the Event Serialization Format to Protobuf in the input.json file of the job and reference the DLL.	
Add an Azure Stream Analytics Custom Deserializer Project (.NET) project to the solution.	
Add .NET deserializer code for Protobuf to the custom deserializer project.	
Add .NET deserializer code for Protobuf to the Stream Analytics project.	
Add an Azure Stream Analytics Application project to the solution.	

Answer:

Explanation:

| Actions	Answer Area
Change the Event Serialization Format to Protobuf in the input.json file of the job and reference the DLL.	Add an Azure Stream Analytics Custom Deserializer Project (.NET) project to the solution.
Add an Azure Stream Analytics Custom Deserializer Project (.NET) project to the solution.	Add .NET deserializer code for Protobuf to the custom deserializer project.
Add .NET deserializer code for Protobuf to the custom deserializer project.	
Add .NET deserializer code for Protobuf to the Stream Analytics project.	Add an Azure Stream Analytics Application project to the solution.
Add an Azure Stream Analytics Application project to the solution.	

Explanation:

Step 1: Add an Azure Stream Analytics Custom Deserializer Project (.NET) project to the solution.
Create a custom deserializer
1. Open Visual Studio and select File > New > Project. Search for Stream Analytics and select Azure Stream Analytics Custom Deserializer Project (.NET). Give the project a name, like Protobuf Deserializer.
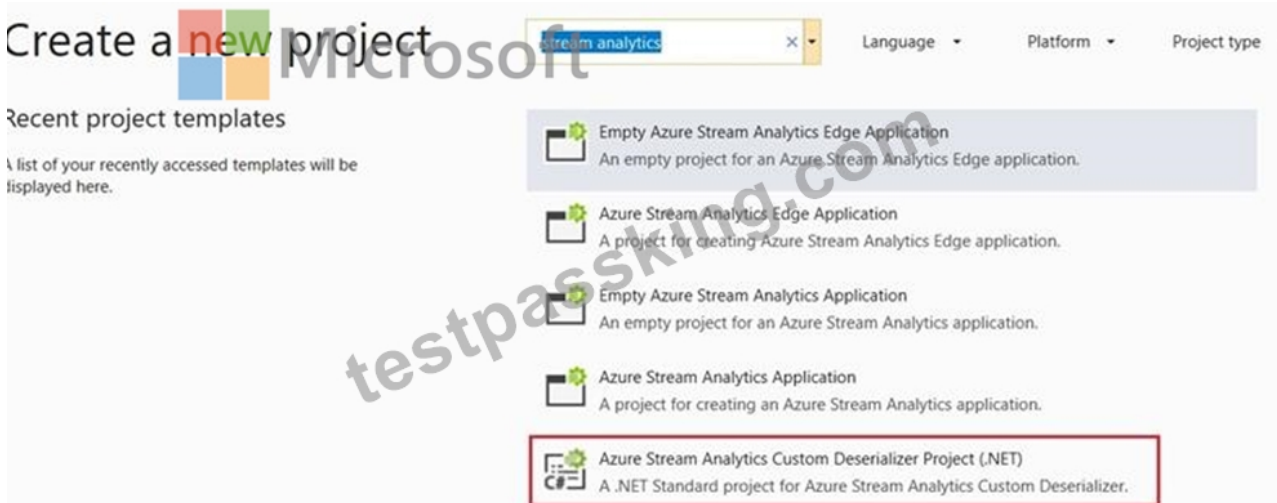
2. In Solution Explorer, right-click your Protobuf Deserializer project and select Manage NuGet Packages from the menu. Then install the Microsoft.Azure.StreamAnalytics and Google.Protobuf NuGet packages.
3. Add the MessageBodyProto class and the MessageBodyDeserializer class to your project.
4. Build the Protobuf Deserializer project.
Step 2: Add .NET deserializer code for Protobuf to the custom deserializer project Azure Stream Analytics has built-in support for three data formats: JSON, CSV, and Avro. With custom .NET deserializers, you can read data from other formats such as Protocol Buffer, Bond and other user defined formats for both cloud and edge jobs.
Step 3: Add an Azure Stream Analytics Application project to the solution Add an Azure Stream Analytics project
* In Solution Explorer, right-click the Protobuf Deserializer solution and select Add > New Project. Under Azure Stream Analytics > Stream Analytics, choose Azure Stream Analytics Application. Name it ProtobufCloudDeserializer and select OK.
* Right-click References under the ProtobufCloudDeserializer Azure Stream Analytics project. Under Projects, add Protobuf Deserializer. It should be automatically populated for you.
Reference:
https://docs.microsoft.com/en-us/azure/stream-analytics/custom-deserializer

NEW QUESTION # 294
You have an Azure Synapse Analytics dedicated SQL pool named pool1.
You plan to implement a star schema in pool1 and create a new table named DimCustomer by using the following code.

```
CREATE TABLE dbo.[DimCustomer](
    [CustomerKey] int NOT NULL,
    [CustomerSourceID] [int] NOT NULL,
    [Title] [nvarchar](8) NULL,
    [FirstName] [nvarchar](50) NOT NULL,
    [MiddleName] [nvarchar](50) NULL,
    [LastName] [nvarchar](50) NOT NULL,
    [Suffix] [nvarchar](10) NULL,
    [CompanyName] [nvarchar](128) NULL,
    [SalesPerson] [nvarchar](256) NULL,
    [EmailAddress] [nvarchar](50) NULL,
    [Phone] [nvarchar](25) NULL,
    [InsertedDate] [datetime] NOT NULL,
    [ModifiedDate] [datetime] NOT NULL,
    [HashKey] [varchar](100) NOT NULL,
    [IsCurrentRow] [bit] NOT NULL
)
WITH
(
    DISTRIBUTION = REPLICATE,
    CLUSTERED COLUMNSTORE INDEX
);
GO
```

You need to ensure that DimCustomer has the necessary columns to support a Type 2 slowly changing dimension (SCD). Which two columns should you add? Each correct answer presents part of the solution.
NOTE: Each correct selection is worth one point.

- A. [EffectiveStartDate] [datetime] NOT NULL
- B. [RowID] [bigint] NOT NULL
- C. [EffectiveEndDate] [datetime] NOT NULL
- D. [HistoricalSalesPerson] [nvarchar] (256) NOT NULL
- E. [PreviousModifiedDate] [datetime] NOT NULL

Answer: C,D

NEW QUESTION # 295
You are implementing an Azure Stream Analytics solution to process event data from devices.
The devices output events when there is a fault and emit a repeat of the event every five seconds until the fault is resolved. The devices output a heartbeat event every five seconds after a previous event if there are no faults present.
A sample of the events is shown in the following table.

DeviceID	EventType	EventTime
78cc5ht9-w357-684r-w4fr-kr16h6p9874e	HeartBeat	2020-12-01T19:00.000Z
78cc5ht9-w357-684r-w4fr-kr16h6p9874e	HeartBeat	2020-12-01T19:05.000Z
78cc5ht9-w357-684r-w4fr-kr16h6p9874e	TemperatureSensorFault	2020-12-01T19:07.000Z

You need to calculate the uptime between the faults.
How should you complete the Stream Analytics SQL query? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

```
SELECT

DeviceID,

MIN(EventTime) as StartTime,

MAX(EventTime) as EndTime,

DATEDIFF(second, MIN(EventTime), MAX(EventTime)) AS duration_in_seconds

FROM input TIMESTAMP BY EventTime
```

▼
WHERE EventType='HeartBeat'
WHERE LAG(EventType, 1) OVER (LIMIT DURATION(second,5)) <> EventType
WHERE IsFirst(second,5) = 1

```
GROUP BY

DeviceID
```

▼
,SessionWindow(second, 5, 50000) OVER (PARTITION BY DeviceID)
,TumblingWindow(second,5)
HAVING DATEDIFF(second, MIN(EventTime), MAX(EventTime)) > 5

Answer:

Explanation:

```
SELECT

DeviceID,

MIN(EventTime) as StartTime,

MAX(EventTime) as EndTime,

DATEDIFF(second, MIN(EventTime), MAX(EventTime)) AS duration_in_seconds

FROM input TIMESTAMP BY EventTime
```

▼
WHERE EventType='HeartBeat'
WHERE LAG(EventType, 1) OVER (LIMIT DURATION(second,5)) <> EventType
WHERE IsFirst(second,5) = 1

```
GROUP BY

DeviceID
```

▼
,SessionWindow(second, 5, 50000) OVER (PARTITION BY DeviceID)
,TumblingWindow(second,5)
HAVING DATEDIFF(second, MIN(EventTime), MAX(EventTime)) > 5

Reference:
https://docs.microsoft.com/en-us/stream-analytics-query/session-window-azure-stream-analytics
https://docs.microsoft.com/en-us/stream-analytics-query/tumbling-window-azure-stream-analytics

NEW QUESTION # 296

You are building a database in an Azure Synapse Analytics serverless SQL pool.

You have data stored in Parquet files in an Azure Data Lake Storage Gen2 container.

Records are structured as shown in the following sample.

```
{
"id": 123,
"address_housenumber": "19c",
"address_line": "Memory Lane",
"applicant1_name": "Jane",
"applicant2_name": "Dev"
}
```

The records contain two applicants at most.

You need to build a table that includes only the address fields.

How should you complete the Transact-SQL statement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

▼	applications

```
CREATE EXTERNAL TABLE
CREATE TABLE
CREATE VIEW
```

```
WITH (
    LOCATION = 'applications/',
    DATA_SOURCE = applications_ds,
    FILE_FORMAT = applications_file_format
)
AS
SELECT id, [address_housenumber] as addresshousenumber, [address_line1] as addressline1
FROM
```

▼	(BULK 'https://contoso1.dfs.core.windows.net/applications/year=*/*.parquet'

```
CROSS APPLY
OPENJSON
OPENROWSET
```

```
FORMAT='PARQUET') AS [r]
GO
```

Answer:

Explanation:

Answer Area

▼	applications

```
CREATE EXTERNAL TABLE
CREATE TABLE
CREATE VIEW
```

```
WITH (
    LOCATION = 'applications/',
    DATA_SOURCE = applications_ds,
    FILE_FORMAT = applications_file_format
)
AS
SELECT id, [address_housenumber] as addresshousenumber, [address_line1] as addressline1
FROM
```

▼	(BULK 'https://contoso1.dfs.core.windows.net/applications/year=*/*.parquet'

```
CROSS APPLY
OPENJSON
OPENROWSET
```

```
FORMAT='PARQUET') AS [r]
GO
```

Explanation

Box 1: CREATE EXTERNAL TABLE

An external table points to data located in Hadoop, Azure Storage blob, or Azure Data Lake Storage. External tables are used to read data from files or write data to files in Azure Storage. With Synapse SQL, you can use external tables to read external data

using dedicated SQL pool or serverless SQL pool.
Syntax:
CREATE EXTERNAL TABLE { database_name.schema_name.table_name | schema_name.table_name | table_name } (
<column_definition> [,...n]) WITH (LOCATION = 'folder_or_filepath', DATA_SOURCE = external_data_source_name,
FILE_FORMAT = external_file_format_name Box 2. OPENROWSET When using serverless SQL pool, CETAS is used to
create an external table and export query results to Azure Storage Blob or Azure Data Lake Storage Gen2.
Example:
AS
SELECT decennialTime, stateName, SUM(population) AS population
FROM
OPENROWSET(BULK
'https://azureopendatastorage.blob.core.windows.net/censusdatacontainer/release/us_population_county/year=*/*
FORMAT='PARQUET') AS [r] GROUP BY decennialTime, stateName GO Reference:
https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/develop-tables-external-tables

NEW QUESTION # 297
You have an Azure Data Factory pipeline that has the activity shown in the following exhibit.

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the
graphic.

Answer:

Explanation:

Explanation

Answer Area

Stored procedure1 will execute if Web1 and Set variable1 [answer choice]. | succeed ▾ |

If Web1 fails and Set variable2 succeeds, the pipeline status will be [answer choice]. | Failed ▾ |
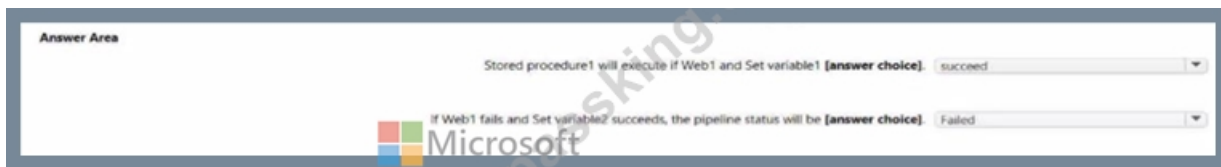
NEW QUESTION # 298
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