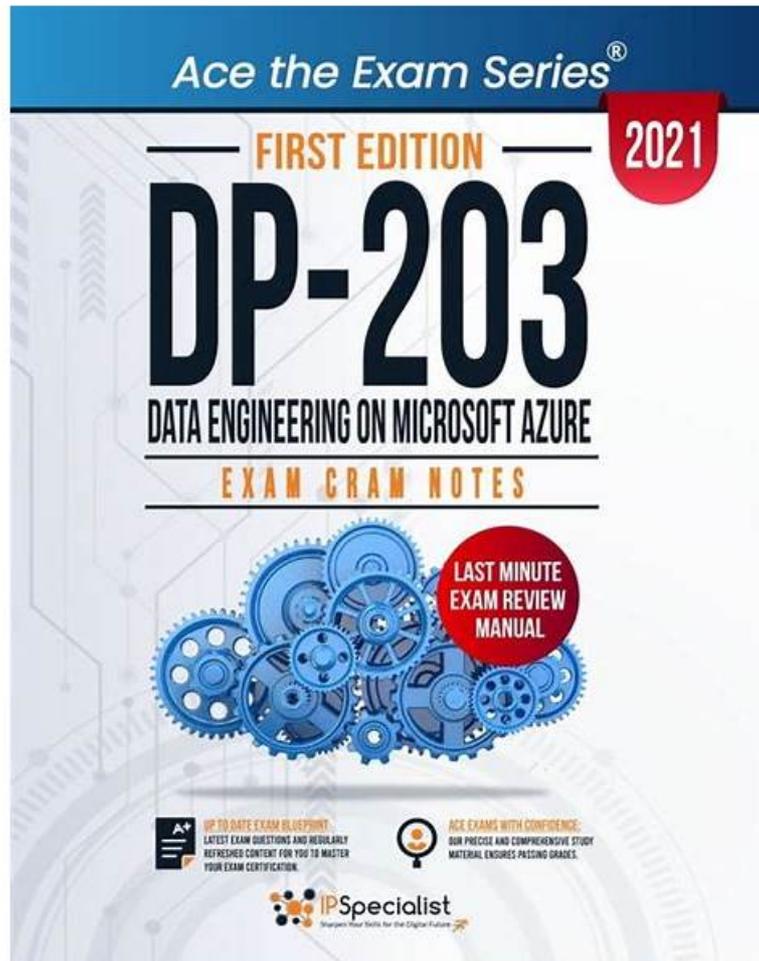


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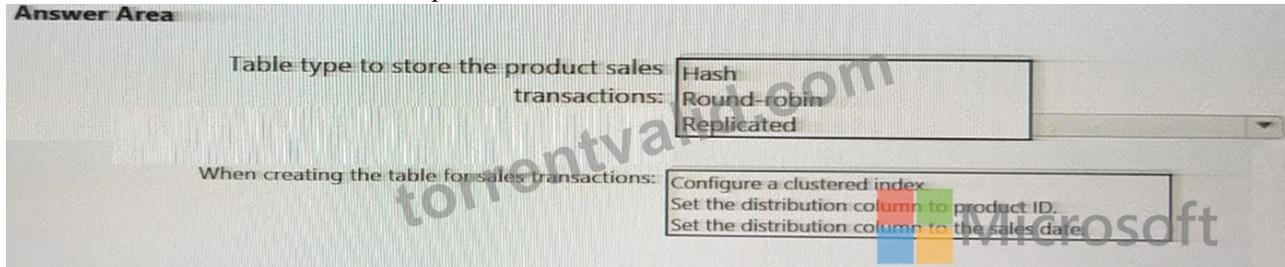
# Microsoft Data Engineering on Microsoft Azure Sample Questions (Q286-Q291):

## NEW QUESTION # 286

You need to design a data storage structure for the product sales transactions. The solution must meet the sales transaction dataset requirements.

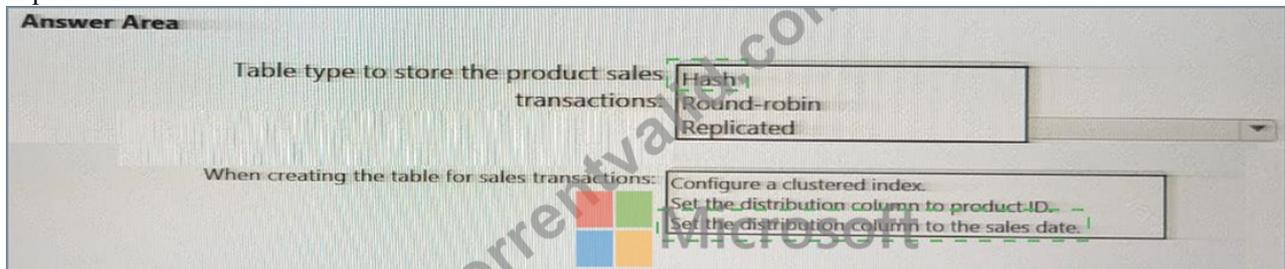
What should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



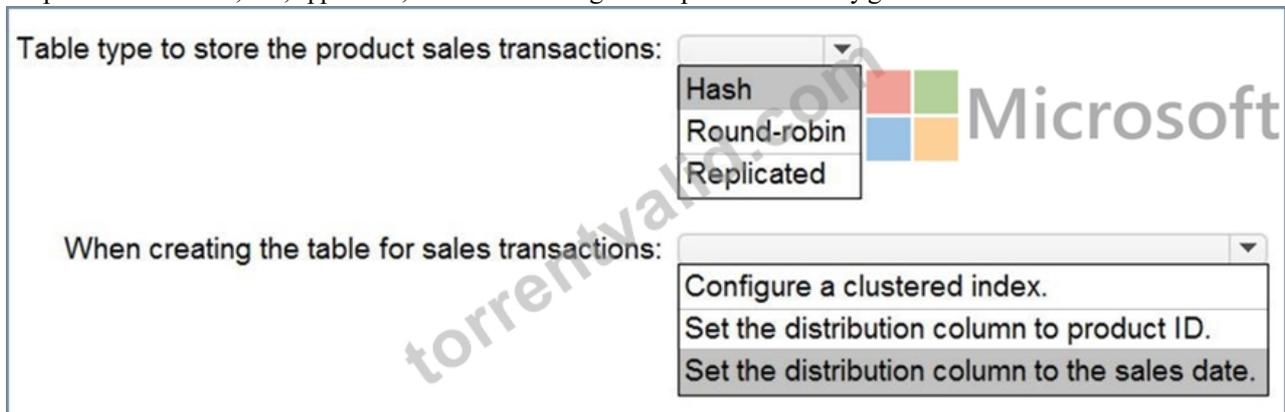
Answer:

Explanation:



Explanation:

Graphical user interface, text, application, chat or text message Description automatically generated



Box 1: Hash

Scenario:

Ensure that queries joining and filtering sales transaction records based on product ID complete as quickly as possible. A hash distributed table can deliver the highest query performance for joins and aggregations on large tables.

Box 2: Set the distribution column to the sales date.

Scenario: Partition data that contains sales transaction records. Partitions must be designed to provide efficient loads by month. Boundary values must belong to the partition on the right.

Reference:

<https://rajanieshkaushikk.com/2020/09/09/how-to-choose-right-data-distribution-strategy-for-azure-synapse/>

## NEW QUESTION # 287

You develop a dataset named DBTBL1 by using Azure Databricks.

DBTBL1 contains the following columns:

- \* SensorTypeID
- \* GeographyRegionID

- \* Year
- \* Month
- \* Day
- \* Hour
- \* Minute
- \* Temperature
- \* WindSpeed
- \* Other

You need to store the data to support daily incremental load pipelines that vary for each GeographyRegionID. The solution must minimize storage costs.

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

NOTE: Each correct selection is worth one point.

`df.write`

<code>bucketBy</code>	<code>(<b>"*</b>")</code>
<code>format</code>	<code>("GeographyRegionID")</code>
<code>partitionBy</code>	<code>("GeographyRegionID", "Year", "Month", "Day")</code>
<code>sortBy</code>	<code>("Year", "Month", "Day", "GeographyRegionID")</code>

`.mode ("append")`

<code>.csv("/DBTBL1")</code>
<code>.json("/DBTBL1")</code>
<code>.parquet("/DBTBL1")</code>
<code>.saveAsTable("/DBTBL1")</code>

**Answer:**

Explanation:

`df.write`

<code>bucketBy</code>	<code>(<b>"*</b>")</code>
<code>format</code>	<code>("GeographyRegionID")</code>
<code>partitionBy</code>	<code>("GeographyRegionID", "Year", "Month", "Day")</code>
<code>sortBy</code>	<code>("Year", "Month", "Day", "GeographyRegionID")</code>

`.mode ("append")`

<code>.csv("/DBTBL1")</code>
<code>.<b>json</b>("/DBTBL1")</code>
<code>.parquet("/DBTBL1")</code>
<code>.saveAsTable("/DBTBL1")</code>

Explanation

Graphical user interface, text, application Description automatically generated

```
df.write
```



.bucketBy	("*")
.format	("GeographyRegionID")
.partitionBy	("GeographyRegionID", "Year", "Month", "Day")
.sortBy	("Year", "Month", "Day", "GeographyRegionID")

```
.mode ("append")
```

.csv("/DBTBL1")
.json("/DBTBL1")
.parquet("/DBTBL1")
.saveAsTable("/DBTBL1")

### NEW QUESTION # 288

You need to collect application metrics, streaming query events, and application log messages for an Azure Databrick cluster. Which type of library and workspace should you implement? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Library:

Azure Databricks Monitoring Library
Microsoft Azure Management Monitoring Library
PyTorch
TensorFlow

Workspace:

Azure Databricks
Azure Log Analytics
Azure Machine Learning

Answer:

Explanation:

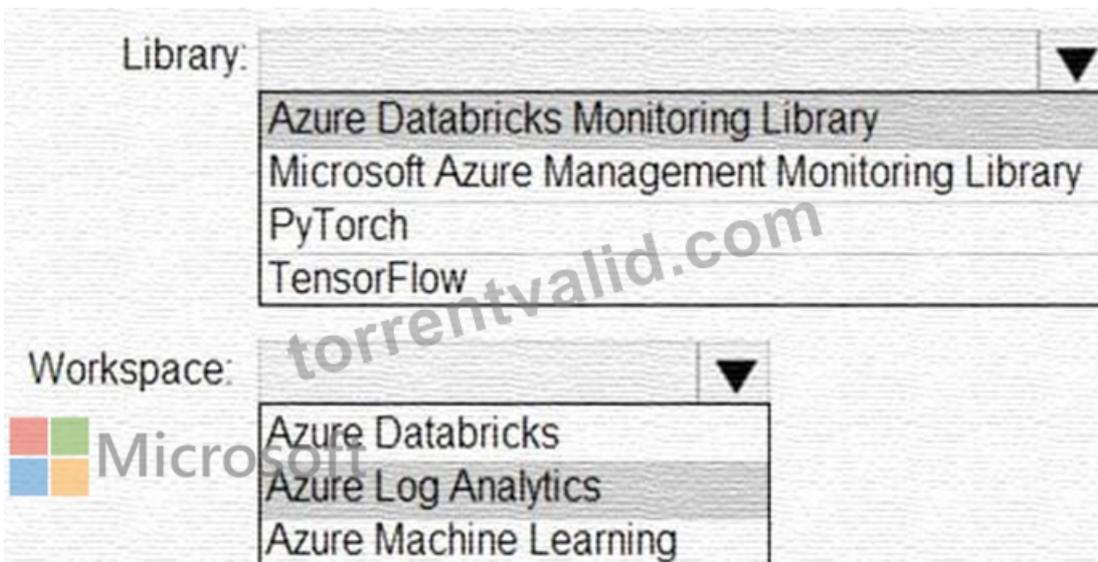
Library:

Azure Databricks Monitoring Library
Microsoft Azure Management Monitoring Library
PyTorch
TensorFlow

Workspace:

Azure Databricks
Azure Log Analytics
Azure Machine Learning

Explanation:



You can send application logs and metrics from Azure Databricks to a Log Analytics workspace. It uses the Azure Databricks Monitoring Library, which is available on GitHub.

References:

<https://docs.microsoft.com/en-us/azure/architecture/databricks-monitoring/application-logs>

#### NEW QUESTION # 289

You have an Azure subscription that contains an Azure data factory.

You are editing an Azure Data Factory activity JSON.

The script needs to copy a file from Azure Blob Storage to multiple destinations. The solution must ensure that the source and destination files have consistent folder paths.

How should you complete the script? 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

Values	Answer Area
<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">FlattenHierarchy</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">ForEach</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">MergeFiles</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">PreserveHierarchy</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">Switch</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">Until</div>	<pre> {   "name": "Pipeline1",   "properties": {     "activities": [       {         "name": "Activity1",         "type": <input type="text"/>,         "typeProperties": {           "isSequential": "true",           "items": {             "value": "@pipeline             ().parameters.mySinkDatasetFolderPath",             "type": "Expression"},           "activities" [             {               "name": "MyCopyActivity",               "type": "Copy",               "typeProperties": {                 "source": {                   "type": "BlobSource",                   "recursive": "false" },                 "sink": {                   "type": "BlobSink",                   "CopyBehavior": <input type="text"/>                 }               }             }           ]         }       }     ]   } } </pre>

**Answer:**

**Explanation:**

**Values**

- FlattenHierarchy
- ForEach
- MergeFiles
- PreserveHierarchy
- Switch
- Until

**Answer Area**

```

{
  "name": "Pipeline1",
  "properties": {
    "activities": [
      {
        "name": "Activity1",
        "type": ForEach,
        "typeProperties": {
          "isSequential": "true",
          "items": {
            "value": "@pipeline
            ().parameters.mySinkDatasetFolderPath",
            "type": "Expression",
            "activities" [
              {
                "name": "MyCopyActivity",
                "type": "Copy",
                "typeProperties": {
                  "source": {
                    "type": "BlobSource",
                    "recursive": "false" },
                  "sink": {
                    "type": "BlobSink",
                    "CopyBehavior": Switch
                  }
                }
              }
            ]
          }
        }
      }
    ]
  }
}

```

Explanation:

**Values**

- FlattenHierarchy
- ForEach
- MergeFiles
- PreserveHierarchy
- Switch
- Until

**Answer Area**

```

{
  "name": "Pipeline1",
  "properties": {
    "activities": [
      {
        "name": "Activity1",
        "type": ForEach,
        "typeProperties": {
          "isSequential": "true",
          "items": {
            "value": "@pipeline().parameters.mySinkDatasetFolderPath",
            "type": "Expression" },
            "activities": [
              {
                "name": "MyCopyActivity",
                "type": "Copy",
                "typeProperties": {
                  "source": {
                    "type": "BlobSource",
                    "recursive": "false" },
                  "sink": {
                    "type": "BlobSink",
                    "CopyBehaviour": Switch
                  }
                }
              }
            ]
          }
        }
      }
    ]
  }
}

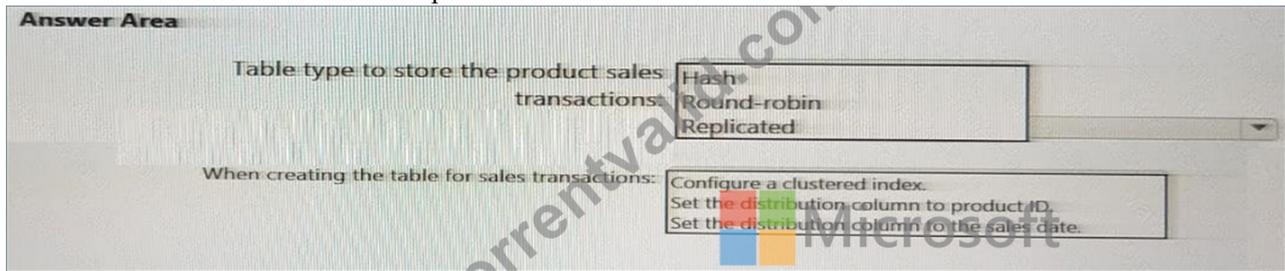
```

**NEW QUESTION # 290**

You need to design a data storage structure for the product sales transactions. The solution must meet the sales transaction dataset requirements.

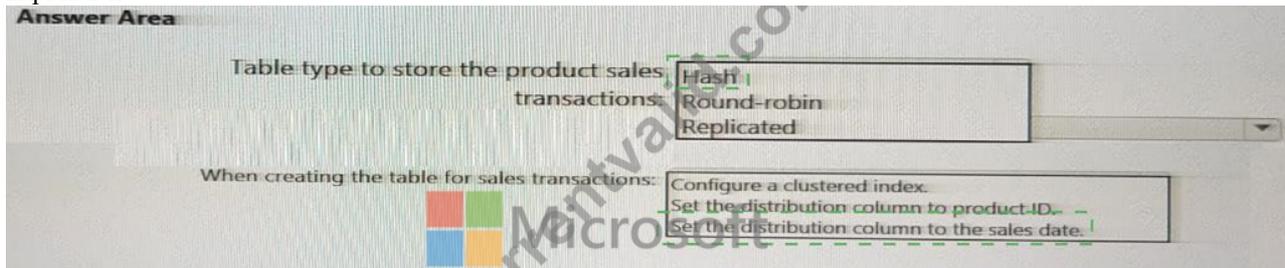
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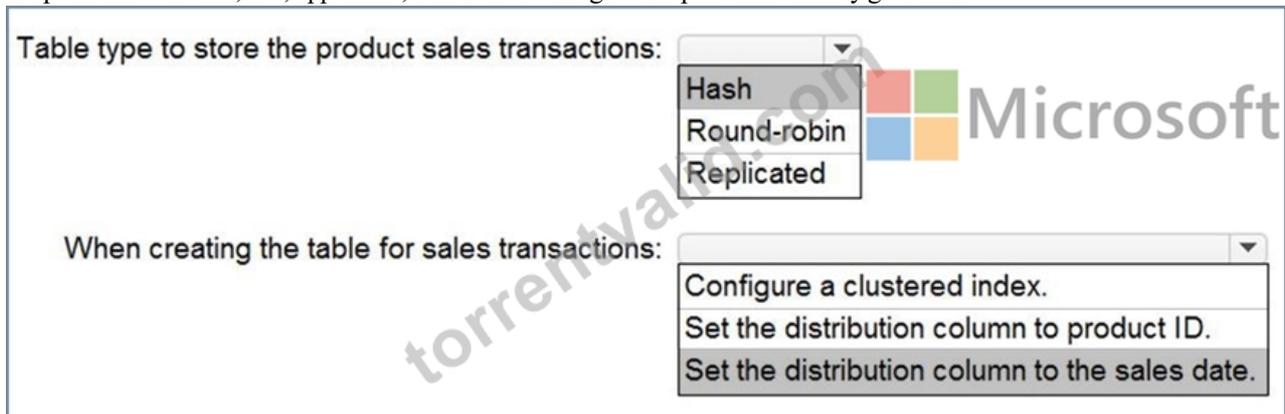
Answer:

Explanation:



Explanation

Graphical user interface, text, application, chat or text message Description automatically generated



Box 1: Hash

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Reference:

<https://rajanieshkaushikk.com/2020/09/09/how-to-choose-right-data-distribution-strategy-for-azure-synapse/>

## NEW QUESTION # 291

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