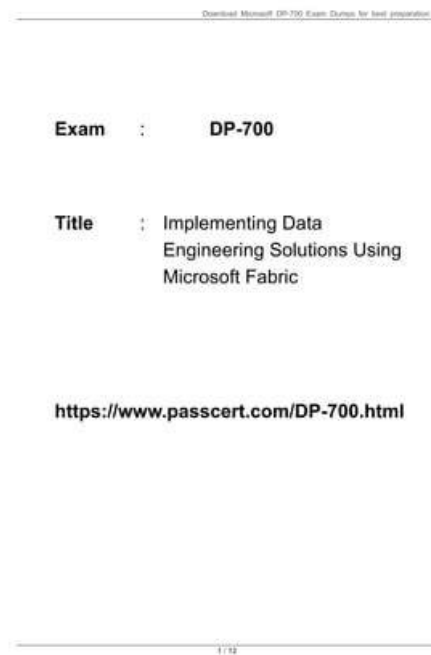


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Microsoft DP-700 Exam Syllabus Topics:

Section	Objectives
Topic 1: Develop data transformation solutions	- Transform data using Spark in Fabric 1. Notebooks in Microsoft Fabric 2. PySpark data processing
	- Data modeling and lakehouse transformation 1. Medallion architecture (Bronze/Silver/Gold) 2. Delta Lake optimization
	- Integrate external data sources 1. Connect to on-premises and SaaS sources 2. Connect to Azure data services
Topic 2: Design and implement data ingestion solutions	- Ingest batch and streaming data into Microsoft Fabric 1. Ingest streaming data using Real-Time Analytics 2. Use Pipelines for data movement 3. Use Dataflows Gen2 for ingestion

- Implement data security
 - 1. Row-level security and column-level security
 - 2. Workspace and item-level permissions

Topic 3: Secure and govern data in Microsoft Fabric

- Data governance and compliance
 - 1. Microsoft Purview integration
 - 2. Data lineage and cataloging
- Monitor pipelines and workloads
 - 1. Configure alerts and logging
 - 2. Monitor data pipeline runs

Topic 4: Manage and monitor data solutions

- Optimize performance and reliability
 - 1. Capacity and workload management in Fabric
 - 2. Spark job optimization

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DP-700 Latest Dumps: Implementing Data Engineering Solutions Using Microsoft Fabric & Implementing Data Engineering Solutions Using Microsoft Fabric Exam Cram

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Microsoft Implementing Data Engineering Solutions Using Microsoft Fabric Sample Questions (Q74-Q79):

NEW QUESTION # 74

You need to recommend a Fabric streaming solution that will use the sources shown in the following table.

Name	Message size	Description
Source1	10 MB	Contains semi-structured data that has a bigint column in the messages
Source2	25 MB	Contains structured data that has 19 columns
Source3	5 MB	Contains unstructured data that has images in the messages

The solution must minimize development effort.

What should you include in the recommendation for each source? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Source1:

- Apache Spark Structured Streaming
- An eventstream
- A data pipeline
- A streaming dataflow**
- An eventstream

Source2:

- Apache Spark Structured Streaming
- An eventstream
- A data pipeline**
- A streaming dataflow

Source3:

- Apache Spark Structured Streaming
- An eventstream**
- A data pipeline
- A streaming dataflow

Answer:

Explanation:
Answer Area

Source1:

- Apache Spark Structured Streaming
- An eventstream
- A data pipeline
- A streaming dataflow**
- An eventstream

Source2:

- Apache Spark Structured Streaming
- An eventstream
- A data pipeline**
- A streaming dataflow

Source3:

- Apache Spark Structured Streaming
- An eventstream**
- A data pipeline
- A streaming dataflow

Explanation:

Answer Area

Source1:

Source2:

Source3:

NEW QUESTION # 75

You have a Fabric F32 capacity that contains a workspace. The workspace contains a warehouse named DW1 that is modelled by using MD5 hash surrogate keys.

DW1 contains a single fact table that has grown from 200 million rows to 500 million rows during the past year.

You have Microsoft Power BI reports that are based on Direct Lake. The reports show year-over-year values.

Users report that the performance of some of the reports has degraded over time and some visuals show errors. You need to resolve the performance issues. The solution must meet the following requirements:

- Provide the best query performance.
- Minimize operational costs.

Which should you do?

- **A. Modify the surrogate keys to use a different data type.**
- B. Change the MD5 hash to SHA256.
- C. Increase the capacity.C Enable V-Order
- D. Create views.

Answer: A

Explanation:

In this case, the key issue causing performance degradation likely stems from the use of MD5 hash surrogate keys. MD5 hashes are 128-bit values, which can be inefficient for large datasets like the 500 million rows in your fact table. Using a more efficient data type for surrogate keys (such as integer or bigint) would reduce the storage and processing overhead, leading to better query performance. This approach will improve performance while minimizing operational costs because it reduces the complexity of querying and indexing, as smaller data types are generally faster and more efficient to process.

NEW QUESTION # 76

You have a Fabric workspace that contains a lakehouse named Lakehouse1. Lakehouse1 contains a table named Status_Target that has the following columns:

- * Key
- * Status
- * LastModified

The data source contains a table named Status.Source that has the same columns as Status_Target. Status.

Source is used to populate Status_Target. In a notebook name Notebook1, you load Status_Source to a DataFrame named sourceDF and Status_Target to a DataFrame named targetDF. You need to implement an incremental loading pattern by using Notebook-1. The solution must meet the following requirements:

- * For all the matching records that have the same value of key, update the value of LastModified in Status_Target to the value of LastModified in Status_Source.
- * Insert all the records that exist in Status_Source that do NOT exist in Status_Target.
- * Set the value of Status in Status_Target to inactive for all the records that were last modified more than seven days ago and that do NOT exist in Status.Source.

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

NOTE: Each correct selection is worth one point.



```
(targetDF
```

```
.merge(sourceDF, "sourceDF.Key" = "targetDF.Key")
```

```
.whenMatchedUpdate(
  .whenMatchedInsert(
    .whenMatchedUpdate(
  .whenNotMatchedBySourceInsert(
    .whenNotMatchedBySourceUpdate(
      .whenNotMatchedInsert(
        .whenNotMatchedUpdate(
```

```
)
    .whenNotMatchedInsert(
      .whenMatchedInsert(
        .whenMatchedUpdate(
          .whenNotMatchedBySourceInsert(
            .whenNotMatchedBySourceUpdate(
              .whenNotMatchedInsert(
                .whenNotMatchedUpdate(
```

```
)
    .whenNotMatchedInsert(
      .whenMatchedInsert(
        .whenMatchedUpdate(
          .whenNotMatchedBySourceInsert(
            .whenNotMatchedInsert(
              .whenNotMatchedUpdate(
```

```
ent_date() - INTERVAL '7' DAY)",
```

Answer:

Explanation:

Explanation:

```
(targetDF
```

```
.merge(sourceDF, "sourceDF.Key" = "targetDF.Key")
```

)

)

```
rent_date() - INTERVAL '7' DAY)",
```



Microsoft

Answer Area

```
...
(targetDF
  .merge(sourceDF, "sourceDF.Key" = "targetDF.Key")
  .whenMatchedUpdate(
    set = {"targetDF.LastModified": "sourceDF.LastModified"}
  )
  .whenNotMatchedInsert(
    values = {
      "targetDF.Key": "sourceDF.Key",
      "targetDF.LastModified": "sourceDF.LastModified",
      "targetDF.Status": "sourceDF.Status"
    }
  )
  .whenNotMatchedBySourceUpdate(
    condition="targetDF.LastModified > (current_date() - INTERVAL '7' DAY)",
    set = {"targetDF.Status": "'inactive'"}
  )
  .execute()
)
...
```



Microsoft

NEW QUESTION # 77

You are building a data loading pattern by using a Fabric data pipeline. The source is an Azure SQL database that contains 25 tables. The destination is a lakehouse.

In a warehouse, you create a control table named Control.Object as shown in the exhibit. (Click the Exhibit tab.) You need to build a data pipeline that will support the dynamic ingestion of the tables listed in the control table by using a single execution.

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

Actions

- ⋮ Add a Get metadata activity to query Control.Object and generate a list of schemas and tables to copy.
- ⋮ Add an Until activity to iterate over the list of tables and copy the source data to the lakehouse Delta tables.
- ⋮ Add a Lookup activity to query Control.Object and generate a list of the schemas and tables to copy.
- ⋮ Add a ForEach activity to iterate over the list of tables and copy the source data to the lakehouse Delta tables.
- ⋮ Add a Copy data activity as an inner activity to the iterator activity.

Answer Area



Microsoft

Answer:

Explanation:

Actions

- ⋮ Add a Get metadata activity to query Control.Object and generate a list of schemas and tables to copy.
- ⋮ Add an Until activity to iterate over the list of tables and copy the source data to the lakehouse Delta tables.
- ⋮ Add a Lookup activity to query Control.Object and generate a list of the schemas and tables to copy.
- ⋮ Add a ForEach activity to iterate over the list of tables and copy the source data to the lakehouse Delta tables.
- ⋮ Add a Copy data activity as an inner activity to the iterator activity.

Answer Area

- ⋮ Add a Lookup activity to query Control.Object and generate a list of the schemas and tables to copy.
- ⋮ Add a ForEach activity to iterate over the list of tables and copy the source data to the lakehouse Delta tables.
- ⋮ Add a Copy data activity as an inner activity to the iterator activity.

Explanation:

Actions

- ⋮ Add a Get metadata activity to query Control.Object and generate a list of schemas and tables to copy.
- ⋮ Add an Until activity to iterate over the list of tables and copy the source data to the lakehouse Delta tables.

Answer Area

- 1 ⋮ Add a Lookup activity to query Control.Object and generate a list of the schemas and tables to copy.
- 2 ⋮ Add a ForEach activity to iterate over the list of tables and copy the source data to the lakehouse Delta tables.
- 3 ⋮ Add a Copy data activity as an inner activity to the iterator activity.

NEW QUESTION # 78

You have a Fabric workspace that contains a lakehouse named Lakehouse1.

In an external data source, you have data files that are 500 GB each. A new file is added every day.

You need to ingest the data into Lakehouse1 without applying any transformations. The solution must meet the following requirements Trigger the process when a new file is added.

Provide the highest throughput.

Which type of item should you use to ingest the data?

- A. Data pipeline
- **B. Event stream**
- C. Streaming dataset
- D. Dataflow Gen2

Answer: B

Explanation:

To ingest large files (500 GB each) from an external data source into Lakehouse1 with high throughput and to trigger the process when a new file is added, an Eventstream is the best solution.

An Eventstream in Fabric is designed for handling real-time data streams and can efficiently ingest large files as soon as they are added to an external source. It is optimized for high throughput and can be configured to trigger upon detecting new files, allowing for fast and continuous ingestion of data with minimal delay.

NEW QUESTION # 79

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