

# Implementing Data Engineering Solutions Using Microsoft Fabric reliable practice torrent & DP-700 exam guide dumps & Implementing Data Engineering Solutions Using Microsoft Fabric test training vce



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## Microsoft DP-700 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>Implement and manage an analytics solution: This section of the exam measures the skills of Microsoft Data Analysts regarding configuring various workspace settings in Microsoft Fabric. It focuses on setting up Microsoft Fabric workspaces, including Spark and domain workspace configurations, as well as implementing lifecycle management and version control. One skill to be measured is creating deployment pipelines for analytics solutions.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>Monitor and optimize an analytics solution: This section of the exam measures the skills of Data Analysts in monitoring various components of analytics solutions in Microsoft Fabric. It focuses on tracking data ingestion, transformation processes, and semantic model refreshes while configuring alerts for error resolution. One skill to be measured is identifying performance bottlenecks in analytics workflows.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>Ingest and transform data: This section of the exam measures the skills of Data Engineers that cover designing and implementing data loading patterns. It emphasizes preparing data for loading into dimensional models, handling batch and streaming data ingestion, and transforming data using various methods. A skill to be measured is applying appropriate transformation techniques to ensure data quality.</li></ul>

>> DP-700 Formal Test <<

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## Microsoft Implementing Data Engineering Solutions Using Microsoft Fabric Sample Questions (Q26-Q31):

### NEW QUESTION # 26

You have a Fabric workspace that contains an eventstream named Eventstream1. Eventstream1 processes data from a thermal sensor by using event stream processing, and then stores the data in a lakehouse.

You need to modify Eventstream1 to include the standard deviation of the temperature.

Which transform operator should you include in the Eventstream1 logic?

- A. Expand
- B. Group by
- **C. Aggregate**
- D. Union

#### Answer: C

Explanation:

To compute the standard deviation of the temperature from the thermal sensor data, you would use the Aggregate transform operator in Eventstream1. The Aggregate operator allows you to apply functions like sum, average, count, and statistical functions like standard deviation across a group of rows or events. This operator is ideal for operations that require summarizing or computing statistics over a dataset, such as calculating the standard deviation.

### NEW QUESTION # 27

You have an Azure SQL database named DB1.

In a Fabric workspace, you deploy an eventstream named EventStreamDB1 to stream record changes from DB1 into a lakehouse.

You discover that events are NOT being propagated to EventStreamDB1.

You need to ensure that the events are propagated to EventStreamDB1.

What should you do?

- A. Create a read-only replica of DB1.
- B. Enable Extended Events for DB1.
- C. Create an Azure Stream Analytics job.
- **D. Enable change data capture (CDC) for DB1.**

#### Answer: D

### NEW QUESTION # 28

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

#### 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 # 29

You have a Fabric workspace that contains a lakehouse named Lakehouse1. Data is ingested into Lakehouse1 as one flat table. The table contains the following columns.

□ You plan to load the data into a dimensional model and implement a star schema. From the original flat table, you create two tables named FactSales and DimProduct. You will track changes in DimProduct.

You need to prepare the data.

Which three columns should you include in the DimProduct table? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. ProductName
- B. ProductID
- C. ProductColor
- D. Date
- E. SalesAmount
- F. TransactionID

**Answer: A,B,C**

Explanation:

In a star schema, the DimProduct table serves as a dimension table that contains descriptive attributes about products. It will provide context for the FactSales table, which contains transactional data. The following columns should be included in the DimProduct table: ProductName: The ProductName is an important descriptive attribute of the product, which is needed for analysis and reporting in a dimensional model.

ProductColor: ProductColor is another descriptive attribute of the product. In a star schema, it makes sense to include attributes like color in the dimension table to help categorize products in the analysis.

ProductID: ProductID is the primary key for the DimProduct table, which will be used to join the FactSales table to the product dimension. It's essential for uniquely identifying each product in the model.

#### NEW QUESTION # 30

You need to ensure that the authors can see only their respective sales data.

How should you complete the statement? To answer, drag the appropriate values 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.

□

**Answer:**

Explanation:

□

Explanation:

□

#### NEW QUESTION # 31

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