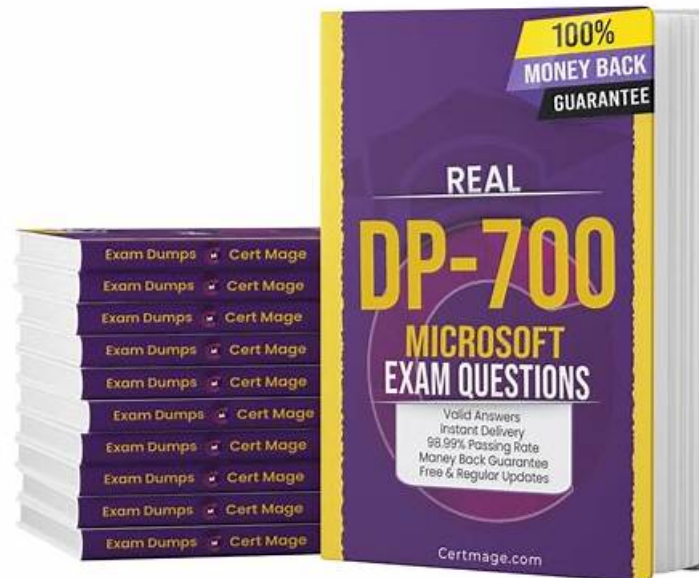


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Microsoft DP-700 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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.
Topic 2	<ul style="list-style-type: none">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.
Topic 3	<ul style="list-style-type: none">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.

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Microsoft Implementing Data Engineering Solutions Using Microsoft Fabric Sample Questions (Q31-Q36):

NEW QUESTION # 31

You have a Fabric workspace that contains a warehouse named Warehouse1. Warehouse1 contains a table named DimCustomers. DimCustomers contains the following columns:

- * CustomerName
- * CustomerID
- * BirthDate
- * Email

You need to configure security to meet the following requirements:

- * BirthDate in DimCustomer must be masked and display 1900-01-01.
- * Email in DimCustomer must be masked and display only the first leading character and the last five characters.

How should you complete the statement? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area

```
ALTER TABLE DimCustomer
ALTER COLUMN BirthDate
ADD MASKED WITH (FUNCTION =
```

```
ALTER TABLE DimCustomer
ALTER COLUMN EmailAddress
ADD MASKED WITH (FUNCTION =
```

Microsoft

Answer:

Explanation:

Answer Area

```
ALTER TABLE DimCustomer
ALTER COLUMN BirthDate
ADD MASKED WITH (FUNCTION =
```

```
ALTER TABLE DimCustomer
ALTER COLUMN EmailAddress
ADD MASKED WITH (FUNCTION =
```

Microsoft

Explanation:

Answer Area

```
ALTER TABLE DimCustomer
ALTER COLUMN BirthDate
ADD MASKED WITH (FUNCTION = 'default()' )

ALTER TABLE DimCustomer
ALTER COLUMN EmailAddress
ADD MASKED WITH (FUNCTION = 'random (1, "@", 5)' )
```

NEW QUESTION # 32

HOTSPOT

You are building a data loading pattern for Fabric notebook workloads.

You have the following code segment:

```
try:
    deltaTable = DeltaTable.forName(spark, target_table)
except Exception:
    try:
        df_source.write.format('delta').mode('overwrite').saveAsTable(f"{target_table}")
    except Exception as e:
        print(f'Load for table {target_table} failed with error: {str(e)}')
        raise
    return

try:
    change_detection_columns = [col for col in df_source.columns if col not in candidate_key]

    match_condition = ' AND '.join([f'target.{col} = source.{col}' for col in candidate_key])
    update_condition = ' OR '.join([f'target.{col} != source.{col}' for col in change_detection_columns])

    update_expr = {col: f'source.{col}' for col in df_source.columns}

    merge_operation = deltaTable.alias('target').merge(
        source=df_source.alias('source'),
        condition=match_condition
    ).whenMatchedUpdate(
        condition=update_condition,
        set=update_expr
    ).whenNotMatchedInsertAll()

    merge_operation.execute()
except Exception as e:
    print(f'Insert operation for table {target_table} failed with error: {str(e)}')
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Answer Area



Microsoft

Statements

Yes

No

The target table will always be overwritten.

☐☐

The merge operation will always run.

☐☐

The loading pattern supports both full and incremental loading requirements.

☐☐

Answer:

Explanation:

Answer Area



Microsoft

Statements

Yes

No

The target table will always be overwritten.

☐☒

The merge operation will always run.

☐☒

The loading pattern supports both full and incremental loading requirements.

☒☐

Explanation:

Answer Area



Microsoft

Statements

Yes

No

The target table will always be overwritten.

☐☒

The merge operation will always run.

☐☒

The loading pattern supports both full and incremental loading requirements.

☒☐

NEW QUESTION # 33

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:


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

Source2:

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

Source3:

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

 Microsoft

Answer:

Explanation:



Microsoft

Source1:

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

Source2:

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

Source3:

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

Explanation:

Answer Area

Source1:

Source2:

Source3:

 Microsoft

NEW QUESTION # 34

You have a Fabric workspace named Workspace1 that contains a lakehouse named Lakehouse1. Lakehouse1 contains the following tables:

Orders
Customer

Employee

The Employee table contains Personally Identifiable Information (PII).

A data engineer is building a workflow that requires writing data to the Customer table, however, the user does NOT have the elevated permissions required to view the contents of the Employee table.

You need to ensure that the data engineer can write data to the Customer table without reading data from the Employee table.

Which three actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Assign the data engineer the Viewer role for Workspace1.
- **B. Share Lakehouse1 with the data engineer.**
- **C. Migrate the Employee table from Lakehouse1 to Lakehouse2.**
- D. Assign the data engineer the Viewer role for Workspace2.
- E. Create a new workspace named Workspace2 that contains a new lakehouse named Lakehouse2.
- **F. Assign the data engineer the Contributor role for Workspace1.**
- G. Assign the data engineer the Contributor role for Workspace2.

Answer: B,C,F

Explanation:

To meet the requirements of ensuring that the data engineer can write data to the Customer table without reading data from the Employee table (which contains Personally Identifiable Information, or PII), you can implement the following steps:

Share Lakehouse1 with the data engineer.

By sharing Lakehouse1 with the data engineer, you provide the necessary access to the data within the lakehouse. However, this access should be controlled through roles and permissions, which will allow writing to the Customer table but prevent reading from the Employee table.

Assign the data engineer the Contributor role for Workspace1.

Assigning the Contributor role for Workspace1 grants the data engineer the ability to perform actions such as writing to tables (e.g., the Customer table) within the workspace. This role typically allows users to modify and manage data without necessarily granting them access to view all data (e.g., PII data in the Employee table).

Migrate the Employee table from Lakehouse1 to Lakehouse2.

To prevent the data engineer from accessing the Employee table (which contains PII), you can migrate the Employee table to a separate lakehouse (Lakehouse2) or workspace (Workspace2). This separation of sensitive data ensures that the data engineer's access is restricted to the Customer table in Lakehouse1, while the Employee table can be managed separately and protected under different access controls.

NEW QUESTION # 35

You have a Fabric workspace.

You have semi-structured data.

You need to read the data by using T-SQL, KQL, and Apache Spark. The data will only be written by using Spark.

What should you use to store the data?

- A. a warehouse
- B. an eventhouse
- C. a datamart
- **D. a lakehouse**

Answer: D

Explanation:

A lakehouse is the best option for storing semi-structured data when you need to read it using T-SQL, KQL, and Apache Spark. A lakehouse combines the flexibility of a data lake (which can handle semi-structured and unstructured data) with the performance features of a data warehouse. It allows data to be written using Apache Spark and can be queried using different technologies such as T-SQL (for SQL-based querying), KQL (Kusto Query Language for querying), and Apache Spark (for distributed processing). This solution is ideal when dealing with semi-structured data and requiring a versatile querying approach.

NEW QUESTION # 36

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