

DP-700 Sample Exam & DP-700 Valid Exam Pdf



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Microsoft DP-700 Exam Syllabus Topics:

Topic	Details
Topic 1	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	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	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 (Q29-Q34):

NEW QUESTION # 29

You have a Fabric workspace that contains a semantic model named Modell. You need to monitor the refresh history of Model 1 and visualize the refresh history in a chart. What should you use?

- A. the refresh history from the settings of Modell.
- B. a Dataflow Gen2 dataflow
- C. a data pipeline
- D. a notebook

Answer: A

NEW QUESTION # 30

You need to recommend a method to populate the POS1 data to the lakehouse medallion layers.

What should you recommend for each layer? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

The screenshot shows two dropdown menus for selecting methods to populate data into the lakehouse medallion layers. The first dropdown is for the 'Bronze layer' and the second is for the 'Silver layer'. Both dropdowns have the same four options: 'A Dataflow Gen2 dataflow', 'A notebook', 'A pipeline Copy activity', and 'A pipeline stored procedure'. The 'A pipeline Copy activity' option in the Bronze layer dropdown and the 'A notebook' option in the Silver layer dropdown are highlighted with red boxes.

Answer:

Explanation:

This screenshot shows the same interface as the previous one, but with the correct selections highlighted. In the 'Bronze layer' dropdown, 'A pipeline Copy activity' is highlighted with a red box. In the 'Silver layer' dropdown, 'A notebook' is highlighted with a red box.

NEW QUESTION # 31

You have a table in a Fabric lakehouse that contains the following data.

SalesOrderNumber	OrderDate	CustomerName	Email
SO49172	2021-01-01	Brian Howard	brian23@adventure-works.com
SO49173	2021-01-01	Linda Alvarez	linda19@adventure-works.com
SO49174	2021-01-01	Gina Hernandez	gina4@adventure-works.com
SO49178	2021-01-01	Beth Ruiz	beth4@adventure-works.com
SO49179	2021-01-01	Evan Ward	evan13@adventure-works.com

You have a notebook that contains the following code segment.

```
01 df = df.withColumn("CustomerName", when((col("CustomerName").isNull() | (col("CustomerName")=="")),lit("Unknown")).otherwise(col("CustomerName")))
02 df = df.withColumn("Username",split(col("Email"), "@").getItem(1))
03 df = df.dropDuplicates(["OrderDate"]).select(col("OrderDate"), year(col("OrderDate")).alias("Year"), ("CustomerName"), ("Username"))
04 display(df.head(10))
```

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

NOTE: Each correct selection is worth one point.

Statements	Yes	No
Line 01 will replace all the null and empty values in the CustomerName column with the Unknown value.	☐	☐
Line 02 will extract the value before the @ character and generate a new column named Username.	☐	☐
Line 03 will extract the year value from the OrderDate column and keep only the first occurrence for each year.	☐	☐

Answer:

Explanation:

Statements	Yes	No
Line 01 will replace all the null and empty values in the CustomerName column with the Unknown value.	☒	☐
Line 02 will extract the value before the @ character and generate a new column named Username.	☐	☒
Line 03 will extract the year value from the OrderDate column and keep only the first occurrence for each year.	☐	☒

NEW QUESTION # 32

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.

Name	Description
TransactionID	Contains a unique ID for each transaction
Date	Contains the date of a transaction
ProductID	Contains a unique ID for each product
ProductColor	Contains a descriptive attribute that describes the color of each product
ProductName	Contains a unique name for each product
SalesAmount	Contains the sales amount of a transaction

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. SalesAmount
- E. Date
- 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 # 33

You have a Fabric workspace that contains an eventhouse and a KQL database named Database1. Database1 has the following:

A table named Table1

A table named Table2

An update policy named Policy1

Policy1 sends data from Table1 to Table2.

The following is a sample of the data in Table2.

Timestamp (datetime)	DeviceId (guid)	StreamData (dynamic)
2024-05-18 12:45:17.16524	81416f30-60a2-4e75-9b19-2a84ea059735	[{ "index": 0, "eventid": "719afca0-be30-4559-bb5e-59feade642f6" }]
2024-05-18 12:45:21.76423	bb664e1e-02aa-4e17-8c8a-116cd4458d52	[{ "index": 0, "eventid": "782222b2-fbcb-43c0-82d6-ecd49a99dbf5" }]
2024-05-18 12:45:23.98642	717bfe7d-0e5d-498f-9f21-e60aaf258056	[{ "index": 0, "eventid": "d5730286-0da4-41f8-8e59-f75e209310a9" }]

Recently, the following actions were performed on Table1:

An additional element named temperature was added to the StreamData column.

The data type of the Timestamp column was changed to date.

The data type of the DeviceId column was changed to string.

You plan to load additional records to Table2.

Which two records will load from Table1 to Table2? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A.

Timestamp (datetime)	DeviceId (guid)	StreamData (dynamic)
2024-05-21	81416f30	[{ "index": 0, "eventid": "719afca0-be30-4559-bb5e-5werade642f6", "temperature": 27 }]

- B.

Timestamp (datetime)	DeviceId (guid)	StreamData (dynamic)
2024-05-23	81416f3060a24e759b192a84ea05973532dhdyte3	[{ "index": 0, "eventid": "719afca0-be30-4559-bb5e-59feade642f6" }]

- C.

Timestamp (datetime)	DeviceId (guid)	StreamData (dynamic)
2024-05-24	81416f30-60a2-4e75-9b19-2a84ea059735	[{ "index": 0, "eventid": "719afca0-be30-4559-bb5e-59feade642f6" }]

- D.

Timestamp (datetime)	DeviceId (guid)	StreamData (dynamic)
2024-05-18	81416f30-60a2-4e75-9b19-2a84ea059735	[{ "index": 40, "eventId": "729afca2-be30-4559-bb5e-59feade642f3", "temperature": 32 }]

Answer: A,C

Explanation:

Changes to Table1 Structure:

StreamData column: An additional temperature element was added.

Timestamp column: Data type changed from datetime to date.

DeviceId column: Data type changed from guid to string.

Impact of Changes:

Only records that comply with Table2's structure will load.

Records that deviate from Table2's column data types or structure will be rejected.

Record B:

Timestamp: Matches Table2 (datetime format).

DeviceId: Matches Table2 (guid format).

StreamData: Contains only the index and eventId, which matches Table2.

Accepted because it fully matches Table2's structure and data types.

Record D:

Timestamp: Matches Table2 (datetime format).

DeviceId: Matches Table2 (guid format).

StreamData: Matches Table2's structure.

Accepted because it fully matches Table2's structure and data types.

NEW QUESTION # 34

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