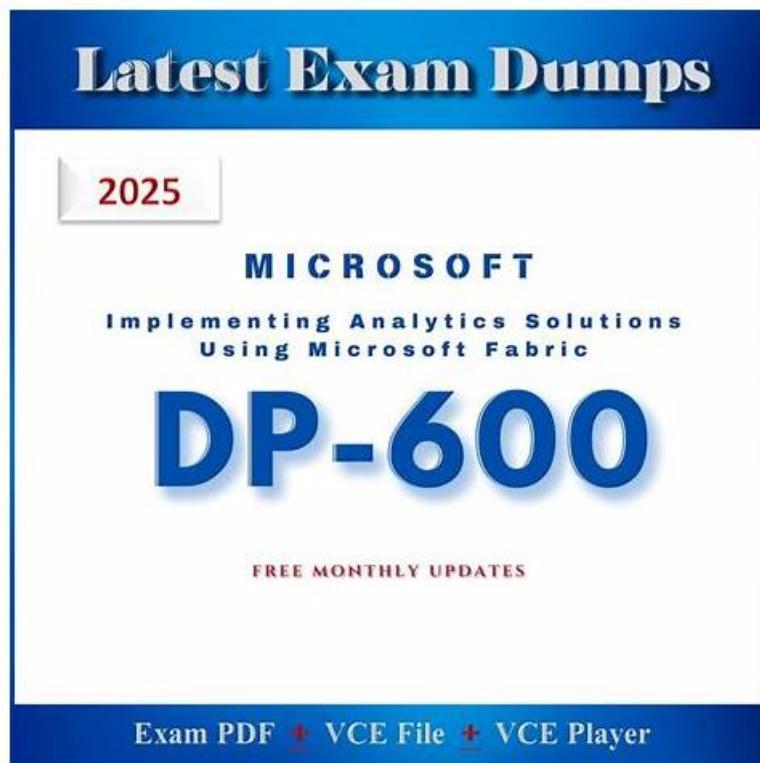


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Microsoft DP-600 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Maintain a data analytics solution: This section of the exam measures the skills of administrators and covers tasks related to enforcing security and managing the Power BI environment. It involves setting up access controls at both workspace and item levels, ensuring appropriate permissions for users and groups. Row-level, column-level, object-level, and file-level access controls are also included, alongside the application of sensitivity labels to classify data securely. This section also tests the ability to endorse Power BI items for organizational use and oversee the complete development lifecycle of analytics assets by configuring version control, managing Power BI Desktop projects, setting up deployment pipelines, assessing downstream impacts from various data assets, and handling semantic model deployments using XMLA endpoint. Reusable asset management is also a part of this domain.
Topic 2	<ul style="list-style-type: none">Implement and manage semantic models: This section of the exam measures the skills of architects and focuses on designing and optimizing semantic models to support enterprise-scale analytics. It evaluates understanding of storage modes and implementing star schemas and complex relationships, such as bridge tables and many-to-many joins. Architects must write DAX-based calculations using variables, iterators, and filtering techniques. The use of calculation groups, dynamic format strings, and field parameters is included. The section also includes configuring large semantic models and designing composite models. For optimization, candidates are expected to improve report visual and DAX performance, configure Direct Lake behaviors, and implement incremental refresh strategies effectively.

Topic 3

- Prepare data: This section of the exam measures the skills of engineers and covers essential data preparation tasks. It includes establishing data connections and discovering sources through tools like the OneLake data hub and the real-time hub. Candidates must demonstrate knowledge of selecting the appropriate storage type—lakehouse, warehouse, or eventhouse—depending on the use case. It also includes implementing OneLake integrations with Eventhouse and semantic models. The transformation part involves creating views, stored procedures, and functions, as well as enriching, merging, denormalizing, and aggregating data. Engineers are also expected to handle data quality issues like duplicates, missing values, and nulls, along with converting data types and filtering. Furthermore, querying and analyzing data using tools like SQL, KQL, and the Visual Query Editor is tested in this domain.

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Microsoft Implementing Analytics Solutions Using Microsoft Fabric Sample Questions (Q27-Q32):

NEW QUESTION # 27

You have a Fabric tenant that contains a semantic model named Model1. Model1 uses Import mode. Model1 contains a table named Orders. Orders has 100 million rows and the following fields.

Name	Data type	Description
OrderId	Integer	Column imported from the source
OrderDateTime	Date/time	Column imported from the source
Quantity	Integer	Column imported from the source
Price	Decimal	Column imported from the source
TotalSalesAmount	Decimal	Calculated column that multiplies Quantity and Price
TotalQuantity	Integer	Measure

You need to reduce the memory used by Model1 and the time it takes to refresh the model. Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct answer is worth one point.

- A. Convert Quantity into the Text data type.
- B. Replace TotalSalesAmount with a measure.
- C. Split OrderDateTime into separate date and time columns.
- D. Replace TotalQuantity with a calculated column.

Answer: B,D

Explanation:

To reduce memory usage and refresh time, splitting the OrderDateTime into separate date and time columns (A) can help optimize the model because date/time data types can be more memory-intensive than separate date and time columns. Moreover, replacing TotalSalesAmount with a measure (D) instead of a calculated column ensures that the calculation is performed at query time, which can reduce the size of the model as the value is not stored but calculated on the fly. Reference = The best practices for optimizing Power BI models are detailed in the Power BI documentation, which recommends using measures for calculations that don't need to be stored and adjusting data types to improve performance.

NEW QUESTION # 28

You have a Fabric tenant that contains a lakehouse named Lakehouse1. Lakehouse1 contains a table named Nyctaxi_raw. Nyctaxi_raw contains the following columns.

Name	Data type
pickupDateTime	Timestamp
passengerCount	Integer
fareAmount	Double
paymentType	String
tipAmount	Double

You create a Fabric notebook and attach it to lakehouse1.

You need to use PySpark code to transform the data.

a. The solution must meet the following requirements:

* Add a column named pickupDate that will contain only the date portion of pickupDateTime.

* Filter the DataFrame to include only rows where fareAmount is a positive number that is less than 100.

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

Answer Area

```
df = spark.read.format("delta").load("Tables/nyctaxi_raw")
df2 = df.withColumn("pickupDate", df['tpepPickupDateTime'].cast('date'))
```

The screenshot shows a PySpark code editor with an auto-completion dropdown. The code defines a DataFrame df and creates a new DataFrame df2 by adding a column 'pickupDate' using the 'withColumn' method. The 'withColumn' method is highlighted in blue. The argument 'df['tpepPickupDateTime'].cast('date')' is shown in the dropdown, with '.cast('date')' highlighted in blue. The code then filters the DataFrame to only include rows where fareAmount is greater than 0 and less than 100.

```
.filter("fareAmount > 0 AND fareAmount < 100")
```

Answer:

Explanation:

Answer Area

```
df = spark.read.format("delta").load("Tables/nyctaxi_raw")
df2 = df.withColumn("pickupDate", df['tpepPickupDateTime'].cast('date'))
```

The screenshot shows a PySpark code editor with an auto-completion dropdown. The code defines a DataFrame df and creates a new DataFrame df2 by adding a column 'pickupDate' using the 'withColumn' method. The 'withColumn' method is highlighted in red. The argument 'df['tpepPickupDateTime'].cast('date')' is shown in the dropdown, with '.cast('date')' highlighted in red. The code then filters the DataFrame to only include rows where fareAmount is greater than 0 and less than 100.

```
.filter("fareAmount > 0 AND fareAmount < 100")
```

NEW QUESTION # 29

You have a Fabric tenant that contains a workspace named Workspace

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