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Microsoft DP-600 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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.
Topic 2	<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 3	<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.
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Microsoft Implementing Analytics Solutions Using Microsoft Fabric Sample Questions (Q142-Q147):

NEW QUESTION # 142

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

You create a Fabric notebook and attach it to lakehouse1.

You need to use PySpark code to transform the data. 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:

Explanation:

Explanation:

* Add the pickupDate column: `.withColumn("pickupDate", df["pickupDateTime"].cast("date"))`

* Filter the DataFrame: `.filter("fareAmount > 0 AND fareAmount < 100")`

In PySpark, you can add a new column to a DataFrame using the `.withColumn` method, where the first argument is the new column name and the second argument is the expression to generate the content of the new column. Here, we use the `.cast("date")` function to extract only the date part from a timestamp. To filter the DataFrame, you use the `.filter` method with a condition that selects rows where fareAmount is greater than 0 and less than 100, thus ensuring only positive values less than 100 are included.

NEW QUESTION # 143

You have the following T-SQL statement.

Answer:

Explanation:

Explanation:

The statement uses `SUM(CASE WHEN RefundStatus = 'Refunded' THEN SalesAmount ELSE 0 END) AS TotalRevenue`, which calculates TotalRevenue by summing SalesAmount only when RefundStatus is 'Refunded', and 0 otherwise. This means Region values are returned regardless of RefundStatus, but the TotalRevenue reflects refunded items.

The WHERE (TransactionDate) - YEAR(GETDATE()) condition is incomplete and lacks proper comparison (e.g., no equality or range check), so it does not filter for the current year.

The TotalRevenue calculation does not aggregate all SalesAmount values with RefundStatus of 'Refunded'; it sums SalesAmount only for refunded items within the grouped data, with 0 for non-refunded items.

NEW QUESTION # 144

You are analyzing customer purchases in a Fabric notebook by using PySpark. You have the following DataFrames:

You need to join the DataFrames on the customer_id column. The solution must minimize data shuffling. You write the following code.

Which code should you run to populate the results DataFrame?

- A. ☐
- **B.** ☒
- C. ☐
- D. ☐

Answer: B

Explanation:

The correct code to populate the results DataFrame with minimal data shuffling is Option A. Using the broadcast function in PySpark is a way to minimize data movement by broadcasting the smaller DataFrame (customers) to each node in the cluster. This is ideal when one DataFrame is much smaller than the other, as in this case with customers. Reference = You can refer to the official Apache Spark documentation for more details on joins and the broadcast hint.

NEW QUESTION # 145

You have a Fabric tenant that contains a workspace named Workspace1 and a user named DBUser.

Workspace1 contains a lakehouse named Lakehouse1. DBUser does NOT have access to the tenant.

You grant DBUser access to Lakehouse1 as shown in the following exhibit.

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

NEW QUESTION # 146

You need to create a DAX measure to calculate the average overall satisfaction score.

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

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

* The measure should use the AVERAGE function to calculate the average value.

* It should reference the Response Value column from the 'Survey' table.

* The 'Number of months' should be used to define the period for the average calculation.

To calculate the average overall satisfaction score using DAX, you would need to use the AVERAGE function on the response values related to satisfaction questions. The DATESINPERIOD function will help in calculating the rolling average over the last 12 months.

NEW QUESTION # 147

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