Microsoft - Professional DP-600 - Premium Implementing Analytics Solutions Using Microsoft Fabric Exam

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Microsoft DP-600 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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.

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Microsoft Implementing Analytics Solutions Using Microsoft Fabric Sample Questions (Q49-Q54):

NEW QUESTION # 49
You have a Fabric lakehouse named Lakehouse1 that contains the following data.

You need build a T-SQL statement that will return the total sales amount by OrderDate only for the days that are holidays in Australia. The total sales amount must sum the quantity multiplied by the price on each row in the dbo.sales table.
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:

Explanation:
Explanation:
Step 1: Requirement
We need to calculate total sales amount by OrderDate.
Total Sales Amount = Quantity × UnitPrice per row.
Then SUM over all rows per OrderDate.
Only include rows where the OrderDate matches a public holiday in Australia.
Step 2: Calculation Logic
If we select s.Quantity * s.UnitPrice, it only computes row-level values.
To calculate the total sales amount per OrderDate, we need:
SUM(s.Quantity * s.UnitPrice) AS TotalSalesAmt
Thus, the correct calculation: SUM(s.Quantity * s.UnitPrice)
Step 3: Join Type
We want to return only those sales that occurred on public holidays in Australia.
If we used a LEFT JOIN, we'd include all sales regardless of holiday.
A FULL OUTER JOIN would include non-matching rows, not required.
A CROSS JOIN would duplicate results unnecessarily.
A RIGHT OUTER JOIN would include holidays with no sales, which is not needed.
The correct choice is an INNER JOIN on matching dates.
Step 4: Final Query
SELECT
s.OrderDate,
SUM(s.Quantity * s.UnitPrice) AS TotalSalesAmt
FROM dbo.sales AS s

INNER JOIN dbo.publicholidays AS ph
ON s.OrderDate = ph.Date
WHERE ph.countryOrRegion = 'Australia'
GROUP BY s.OrderDate;
Why This is Correct
SUM(s.Quantity * s.UnitPrice) # ensures sales are aggregated correctly.
INNER JOIN # ensures only rows where OrderDate matches a holiday are included.
WHERE ph.countryOrRegion = 'Australia' # filters holidays to Australia only.
References
SUM (Transact-SQL)
JOIN operations in T-SQL

NEW QUESTION # 50
Drag and Drop Question
You have a Fabric tenant that contains a workspace named Workspace1. Workspace1 uses the Pro license mode and contains a semantic model named Model1.
You have an Azure DevOps organization.
You need to enable version control for Workspace1. The solution must ensure that Model1 is added to the repository.
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Answer:

Explanation:

NEW QUESTION # 51
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.
You have a Fabric tenant that contains a semantic model named Model1.
You discover that the following query performs slowly against Model1.
You need to reduce the execution time of the query.
Solution: You replace line 4 by using the following code:
Does this meet the goal?

- A. No
- B. Yes

Answer: B

Explanation:
ISEMPTY(CALCULATETABLE('Order Item')) checks if there are no related rows in 'Order Item' for a customer. Wrapping this in NOT returns true if the customer has at least one order. This avoids calculating row counts and instead just checks existence, which is more efficient for performance. This reduces execution time and meets the goal.

NEW QUESTION # 52
You have a Fabric warehouse that contains a table named Staging.Sales. Staging.Sales contains the following columns.
You need to write a T-SQL query that will return data for the year 2023 that displays ProductID and ProductName arxl has a summarized Amount that is higher than 10,000. Which query should you use?

- A.
- B.
- C.
- D.

Answer: B

Explanation:
The correct query to use in order to return data for the year 2023 that displays ProductID, ProductName, and has a summarized Amount greater than 10,000 is Option B. The reason is that it uses the GROUP BY clause to organize the data by ProductID and ProductName and then filters the result using the HAVING clause to only include groups where the sum of Amount is greater than 10,000. Additionally, the DATEPART(YEAR, SaleDate) = '2023' part of the HAVING clause ensures that only records from the year 2023 are included.
References = For more information, please visit the official documentation on T-SQL queries and the GROUP BY clause at T-SQL GROUP BY.

NEW QUESTION # 53
You are implementing a medallion architecture in a single Fabric workspace.
You have a lakehouse that contains the 8ronze and Silver layers and a warehouse that contains the Gold layer.
You create the items required to populate the layers as shown in the following table.

You need to ensure that the layers are populated daily in sequential order such that Silver is populated only after Bronze is complete, and Gold is populated only after Silver is complete. The solution must minimize development effort and complexity.
What should you use to execute each set of items? To answer, drag the appropriate options to the correct items. Each option 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:
To execute each set of items in sequential order with minimized development effort and complexity, you should use the following options:
* Orchestration pipeline: Use a pipeline with an Invoke pipeline activity. This allows for orchestrating and scheduling the execution of other pipelines, ensuring they run in the correct sequence.
* Bronze layer: Implement a pipeline Copy activity. This aligns with the table indicating that the Bronze layer uses pipelines with Copy activities for data integration.
* Silver layer: Implement a pipeline Dataflow activity. The table specifies that Dataflows are used for the Silver layer.
* Gold layer: Implement a pipeline Stored procedure activity. Stored procedures are specified for the Gold layer according to the table.

NEW QUESTION # 54
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