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Microsoft DP-600 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 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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100% Pass Microsoft - Newest DP-600 - Implementing Analytics Solutions Using Microsoft Fabric Dumps PDF

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Microsoft Implementing Analytics Solutions Using Microsoft Fabric Sample Questions (Q43-Q48):

NEW QUESTION # 43
Hotspot Question
You have a Fabric lakehouse named Lakehouse1 that contains the following data.

Table name	Column name	Data type
dbo.publicholidays	countryOrRegion	Varchar(8000)
dbo.publicholidays	holidayName	Varchar(8000)
dbo.publicholidays	Date	Date
dbo.sales	OrderDate	Date
dbo.sales	Quantity	Float
dbo.sales	UnitPrice	Float

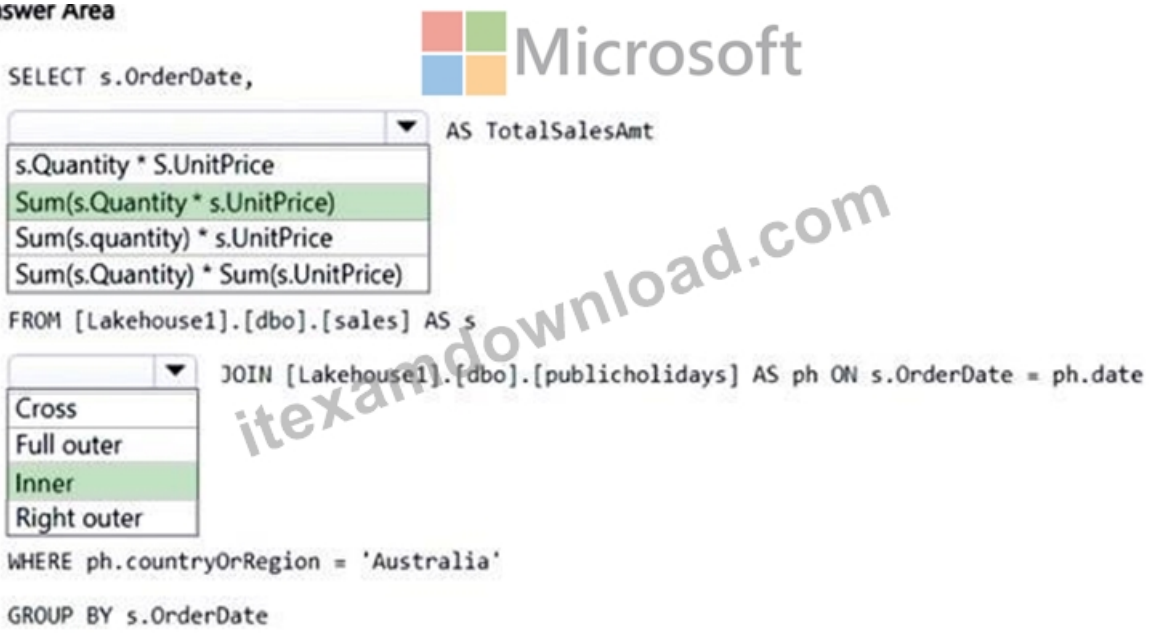
You need build a T-SQL statement that will return the total sales amount by OrderDate only for the days that are holidays in Australia. The total sales amount must sum the quantity multiplied by the price on each row in the dbo.sales table.
How should you complete the statement? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Answer Area

```
SELECT s.OrderDate,
[ s.Quantity * S.UnitPrice | Sum(s.Quantity * s.UnitPrice) | Sum(s.quantity) * s.UnitPrice | Sum(s.Quantity) * Sum(s.UnitPrice) ] AS TotalSalesAmt
FROM [Lakehouse1].[dbo].[sales] AS s
[ Cross | Full outer | Inner | Right outer ] JOIN [Lakehouse1].[dbo].[publicholidays] AS ph ON s.OrderDate = ph.date
WHERE ph.countryOrRegion = 'Australia'
GROUP BY s.OrderDate
```

Answer:

Explanation:

Answer Area



NEW QUESTION # 44
You have a semantic model named Model 1. Model 1 contains five tables that all use Import mode. Model1 contains a dynamic row-level security (RLS) role named HR. The HR role filters employee data so that HR managers only see the data of the department to which they are assigned.
You publish Model1 to a Fabric tenant and configure RLS role membership. You share the model and related reports to users.
An HR manager reports that the data they see in a report is incomplete.
What should you do to validate the data seen by the HR Manager?

- A. Ask the HR manager to open the report in Microsoft Power Bl Desktop.
- B. Select Test as role to view the data as the HR role.
- C. Filter the data in the report to match the intended logic of the filter for the HR department.
- D. Select Test as role to view the report as the HR manager,

Answer: B

Explanation:
To validate the data seen by the HR manager, you should use the 'Test as role' feature in Power BI service.
This allows you to see the data exactly as it would appear for the HR role, considering the dynamic RLS setup.
Here is how you would proceed:
* Navigate to the Power BI service and locate Model1.
* Access the dataset settings for Model1.
* Find the security/RLS settings where you configured the roles.
* Use the 'Test as role' feature to simulate the report viewing experience as the HR role.
* Review the data and the filters applied to ensure that the RLS is functioning correctly.
* If discrepancies are found, adjust the RLS expressions or the role membership as needed.
References: The 'Test as role' feature and its use for validating RLS in Power BI is covered in the Power BI documentation available on Microsoft's official documentation.

NEW QUESTION # 45
You have a Fabric tenant that contains a Microsoft Power Bl report named Report 1. Report1 includes a Python visual. Data displayed by the visual is grouped automatically and duplicate rows are NOT displayed. You need all rows to appear in the visual.
What should you do?

- A. Modify the Summarize By property for all columns.
- B. Add a unique field to each row.
- C. Reference the columns in the Python code by index.
- D. Modify the Sort Column By property for all columns.

Answer: C

Explanation:
To ensure all rows appear in the Python visual within a Power BI report, option C, adding a unique field to each row, is the correct solution. This will prevent automatic grouping by unique values and allow for all instances of data to be represented in the visual.
Reference = For more on Power BI Python visuals and how they handle data, please refer to the Power BI documentation.
Topic 2, Contoso, ltd.
Overview
Contoso, ltd. is a US-based health supplements company, Contoso has two divisions named Sales and Research. The Sales division contains two departments named Online Sales and Retail Sales. The Research division assigns internally developed product lines to individual teams of researchers and analysts.
Identity Environment
Contoso has a Microsoft Entra tenant named contoso.com. The tenant contains two groups named ResearchReviewersGroupi and ReseachReviewefsGfoup2.
Data Environment
Contoso has the following data environment
* The Sales division uses a Microsoft Power B1 Premium capacity.
* The semantic model of the Online Sales department includes a fact table named Orders that uses import mode. In the system of origin, the OrderlD value represents the sequence in which orders are created.
* The Research department uses an on-premises. third-party data warehousing product.
* Fabric is enabled for contoso.com.
* An Azure Data Lake Storage Gen2 storage account named storage1 contains Research division data for a product line named Producthne1. The data is in the delta format.
* A Data Lake Storage Gen2 storage account named storage2 contains Research division data for a product line named Productline2. The data is in the CSV format.
Planned Changes
Contoso plans to make the following changes:
* Enable support for Fabric in the Power Bl Premium capacity used by the Sales division.
* Make all the data for the Sales division and the Research division available in Fabric.
* For the Research division, create two Fabric workspaces named Producttmelws and Productline2ws.
* in Productlinelws. create a lakehouse named LakehouseV
* In Lakehouse1. create a shortcut to storage1 named ResearchProduct.
Data Analytics Requirements
Contoso identifies the following data analytics requirements:
* All the workspaces for the Sales division and the Research division must support all Fabric experiences.
* The Research division workspaces must use a dedicated, on-demand capacity that has per-minute billing.
* The Research division workspaces must be grouped together logically to support OneLake data hub filtering based on the department name.
* For the Research division workspaces, the members of ResearchRevtewersGroupl must be able to read lakehouse and warehouse data and shortcuts by using SQL endpoints.
* For the Research division workspaces, the members of ResearchReviewersGroup2 must be able to read lakehouse data by using Lakehouse explorer.
* All the semantic models and reports for the Research division must use version control that supports branching Data Preparation Requirements Contoso identifies the following data preparation requirements:
* The Research division data for Producthne2 must be retrieved from Lakehouset by using Fabric notebooks.
* All the Research division data in the lakehouses must be presented as managed tables in Lakehouse explorer.
Semantic Model Requirements
Contoso identifies the following requirements for implementing and managing semantic models;
* The number of rows added to the Orders table during refreshes must be minimized.
* The semantic models in the Research division workspaces must use Direct Lake mode.
General Requirements
Contoso identifies the following high-level requirements that must be considered for all solutions:
* Follow the principle of least privilege when applicable
* Minimize implementation and maintenance effort when possible.

NEW QUESTION # 46
You have a Fabric tenant that contains customer churn data stored as Parquet files in OneLake. The data contains details about customer demographics and product usage.
You create a Fabric notebook to read the data into a Spark DataFrame. You then create column charts in the notebook that show

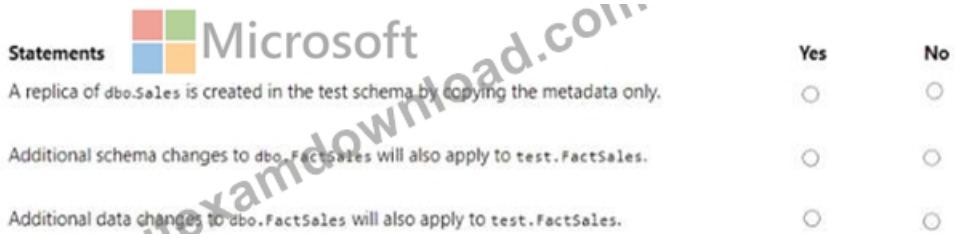
the distribution of retained customers as compared to lost customers based on geography, the number of products purchased, age. and customer tenure.
Which type of analytics are you performing?

- A. descriptive
- B. diagnostic
- C. prescriptive
- D. predictive

Answer: A

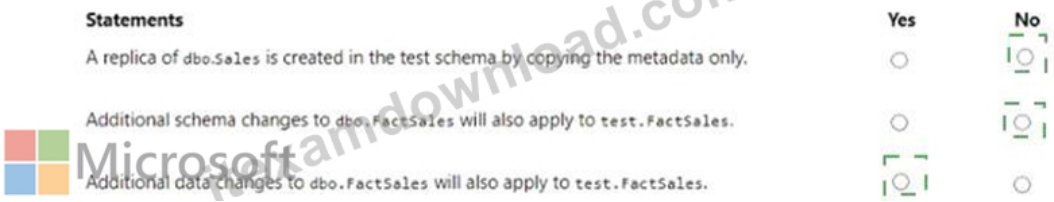
Explanation:
The charts in the Fabric notebook are summarizing customer churn data (retained vs lost customers) across dimensions such as geography, products purchased, age, and tenure. This is describing "what has happened" in the data.
Descriptive analytics summarizes and visualizes historical data.
Diagnostic analytics explains "why" events occurred.
Predictive analytics forecasts future outcomes.
Prescriptive analytics recommends actions.
Since only distributions are being shown, this is descriptive analytics.
References:
Microsoft Learn - Types of Analytics in Fabric
Descriptive Analytics concepts

NEW QUESTION # 47
You have a Fabric tenant that contains a warehouse named Warehouse1. Warehouse1 contains a fact table named FactSales that has one billion rows. You run the following T-SQL statement.
CREATE TABLE test.FactSales AS CLONE OF Dbo.FactSales;
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



Answer:

Explanation:
Answer Area



Explanation:
* A replica of dbo.Sales is created in the test schema by copying the metadata only. - Yes
* Additional schema changes to dbo.FactSales will also apply to test.FactSales. - No
* Additional data changes to dbo.FactSales will also apply to test.FactSales. - No The CREATE TABLE AS CLONE statement creates a copy of an existing table, including its data and any associated data structures, like indexes. Therefore, the statement does not merely copy metadata; it also copies the data. However, subsequent schema changes to the original table do not automatically propagate to the cloned table. Any data changes in the original table after the clone operation will not be reflected in the clone unless explicitly updated.
References =
* CREATE TABLE AS SELECT (CTAS) in SQL Data Warehouse

NEW QUESTION # 48

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