

DP-600 Exam Course - DP-600 Latest Exam Notes



Domain Covered in [DP-600] Exam

TOPICS	Weightage of Question
<ul style="list-style-type: none"> Maintain a data analytics solution 	(25-30%)
<ul style="list-style-type: none"> Prepare data 	(45-50%)
<ul style="list-style-type: none"> Implement and manage semantic models 	(25-30%)

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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.

Pass Guaranteed Pass-Sure DP-600 - Implementing Analytics Solutions Using Microsoft Fabric Exam Course

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Microsoft Implementing Analytics Solutions Using Microsoft Fabric Sample Questions (Q229-Q234):

NEW QUESTION # 229

You are the administrator of a Fabric workspace that contains a lakehouse named Lakehouse1. Lakehouse1 contains the following tables:

- * Table1: A Delta table created by using a shortcut
- * Table2: An external table created by using Spark
- * Table3: A managed table

You plan to connect to Lakehouse1 by using its SQL endpoint. What will you be able to do after connecting to Lakehouse1?

- A. Update the data Table3.
- B. Update the data in Table1.
- C. ReadTable2.
- D. ReadTable3.

Answer: B

NEW QUESTION # 230

You have a Fabric tenant that contains a lakehouse named Lakehouse1

Readings from 100 IoT devices are appended to a Delta table in Lakehouse1. Each set of readings is approximately 25 KB.

Approximately 10 GB of data is received daily.

All the table and SparkSession settings are set to the default.

You discover that queries are slow to execute. In addition, the lakehouse storage contains data and log files that are no longer used.

You need to remove the files that are no longer used and combine small files into larger files with a target size of 1 GB per file.

What should you do? To answer, drag the appropriate actions to the correct requirements. Each action 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.

The screenshot shows a drag-and-drop interface for a Microsoft Fabric exam question. On the left, under the heading "Actions", there is a list of six items, each with a colored bar on its left side and a text box containing the action name. The items are: "Set the autoCompact table setting." (light blue), "Set the optimizeWrite table setting." (light green), "Run the VACUUM command on a schedule." (light orange), "Set the autoCompact SparkSession setting." (light purple), "Run the OPTIMIZE command on a schedule." (light red), and "Set the parallelDeleteSparkSession setting." (light yellow). On the right, under the heading "Answer Area", there are two input fields: "Remove the files:" and "Combine the files:". A large, semi-transparent watermark "Microsoftpreppdf.com" is overlaid across the center of the interface.

Answer:

Explanation:

Actions

- Set the autoCompact table setting.
- Set the optimizeWrite table setting.
- Run the VACUUM command on a schedule.
- Set the autoCompact SparkSession setting.
- Run the OPTIMIZE command on a schedule.
- Set the parallelDelete SparkSession setting.

Answer Area

- Remove the files: Run the VACUUM command on a schedule.
- Combine the files: Set the optimizeWrite table setting.

Explanation:

- * Remove the files: Run the VACUUM command on a schedule.
- * Combine the files: Set the optimizeWrite table setting, or Run the OPTIMIZE command on a schedule.

To remove files that are no longer used, the VACUUM command is used in Delta Lake to clean up invalid files from a table. To combine smaller files into larger ones, you can either set the optimizeWrite setting to combine files during write operations or use the OPTIMIZE command, which is a Delta Lake operation used to compact small files into larger ones.

NEW QUESTION # 231

You have a Fabric tenant that contains a warehouse.

Several times a day, the performance of all warehouse queries degrades. You suspect that Fabric is throttling the compute used by the warehouse.

What should you use to identify whether throttling is occurring?

- A. the Microsoft Fabric Capacity Metrics app
- B. dynamic management views (DMVs)
- C. the Capacity settings
- D. the Monitoring hub

Answer: A

Explanation:

To identify whether throttling is occurring, you should use the Monitoring hub (B). This provides a centralized place where you can monitor and manage the health, performance, and reliability of your data estate, and see if the compute resources are being throttled. References = The use of the Monitoring hub for performance management and troubleshooting is detailed in the Azure Synapse Analytics documentation.

NEW QUESTION # 232

You have a Fabric warehouse that contains a table named SalesOrderDetail. SalesOrderDetail contains three columns named OrderQty, ProductID and SalesOrderID. SalesOrderDetail contains one row per combination of SalesOrderID and ProductID. You need to calculate the proportion of the total quantity of each sales order represented by each product within the sales order. Which T-SQL statement should you run?

- A.

```
SELECT SalesOrderID, ProductID, OrderQty
,CAST(1. * OrderQty / SUM(OrderQty) OVER(PARTITION BY SalesOrderID) * 100
AS DECIMAL(5,2)) AS PercentbyProductID
FROM Sales.SalesOrderDetail;
```

```
SELECT SalesOrderID, ProductID, OrderQty
,CAST(1. * OrderQty / SUM(OrderQty) OVER(PARTITION BY ProductID) * 100
AS DECIMAL(5,2)) AS PercentbyProductID
FROM Sales.SalesOrderDetail;
```

- B.
- C.

```
SELECT SalesOrderID, ProductID, OrderQty
,CAST(1. * OrderQty / SUM(OrderQty) OVER (ORDER BY SalesOrderID) * 100
AS DECIMAL(5,2)) AS PercentbyProductID
FROM Sales.SalesOrderDetail;
```



```
SELECT SalesOrderID, ProductID, OrderQty
,CAST(1. * OrderQty / SUM(OrderQty) OVER (ORDER BY ProductID) * 100
AS DECIMAL(5,2)) AS PercentbyProductID
FROM Sales.SalesOrderDetail;
```



- D.

Answer: A

NEW QUESTION # 233

You have a Fabric tenant.

You are creating a Fabric Data Factory pipeline.

You have a stored procedure that returns the number of active customers and their average sales for the current month.

You need to add an activity that will execute the stored procedure in a warehouse. The returned values must be available to the downstream activities of the pipeline.

Which type of activity should you add?

- A. Switch
- B. Append variable
- C. Copy data
- **D. Script**

Answer: D

NEW QUESTION # 234

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