

# **DP-600**<sup>Q&As</sup>

Implementing Analytics Solutions Using Microsoft Fabric

# Pass Microsoft DP-600 Exam with 100% Guarantee

Free Download Real Questions & Answers PDF and VCE file from:

https://www.pass4itsure.com/dp-600.html

100% Passing Guarantee 100% Money Back Assurance

Following Questions and Answers are all new published by Microsoft
Official Exam Center

- Instant Download After Purchase
- 100% Money Back Guarantee
- 365 Days Free Update
- 800,000+ Satisfied Customers



2024 Latest pass4itsure DP-600 PDF and VCE dumps Download

#### **QUESTION 1**

You have a Fabric tenant that contains a lakehouse named Lakehouse1. Lakehouse1 contains a subfolder named Subfolder1 that contains CSV files. You need to convert the CSV files into the delta format that has V-Order optimization enabled. What should you do from Lakehouse explorer?

- A. Use the Load to Tables feature.
- B. Create a new shortcut in the Files section.
- C. Create a new shortcut in the Tables section.
- D. Use the Optimize feature.

Correct Answer: D

Explanation: To convert CSV files into the delta format with Z-Order optimization enabled, you should use the Optimize feature (D) from Lakehouse Explorer. This will allow you to optimize the file organization for the most efficient querying. References = The process for converting and optimizing file formats within a lakehouse is discussed in the lakehouse management documentation.

#### **QUESTION 2**

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

- transactions: Contains five columns named transaction\_id, customer\_id, product\_id, amount, and date and has 10 million rows, with each row representing a transaction
- . customers: Contains customer details in 1,000 rows and three columns named customer\_id, name, and country

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

```
from pyspark.sql import functions as F results =
```

Which code should you run to populate the results DataFrame? A)

```
transactions.join(F.broadcast(customers), transactions.customer_id == customers.customer_id)
```

B)

```
transactions.join(customers, transactions.customer_id == customers.customer_id).distinct()
```

C)

```
transactions.join(customers, transactions.customer_id == customers.customer_id)
```

D)

transactions.crassJoin(custamers).where(transactions.customer\_id -- customers.custamer\_id)



2024 Latest pass4itsure DP-600 PDF and VCE dumps Download

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

Correct Answer: A

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. References = You can refer to the official Apache Spark documentation for more details on joins and the broadcast hint.

#### **QUESTION 3**

You have a Fabric tenant that contains a warehouse.

A user discovers that a report that usually takes two minutes to render has been running for 45 minutes and has still not rendered.

You need to identify what is preventing the report query from completing.

Which dynamic management view (DMV) should you use?

- A. sys.dm-exec\_requests
- B. sys.dn\_.exec.\_sessions
- C. sys.dm.\_exec.\_connections
- D. sys.dm\_pdw\_exec\_requests

Correct Answer: D

Explanation: The correct DMV to identify what is preventing the report query from completing is sys.dm\_pdw\_exec\_requests (D). This DMV is specific to Microsoft Analytics Platform System (previously known as SQL Data Warehouse), which is the environment assumed to be used here. It provides information about all queries and load commands currently running or that have recently run. References = You can find more about DMVs in the Microsoft documentation for Analytics Platform System.

#### **QUESTION 4**

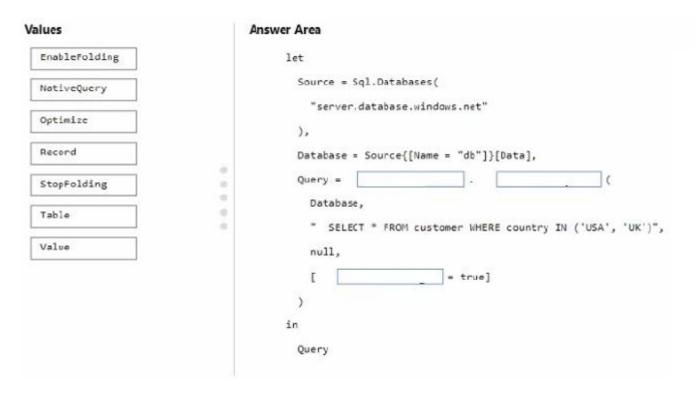
You are creating a dataflow in Fabric to ingest data from an Azure SQL database by using a T-SQL statement.

You need to ensure that any foldable Power Query transformation steps are processed by the Microsoft SQL Server engine.

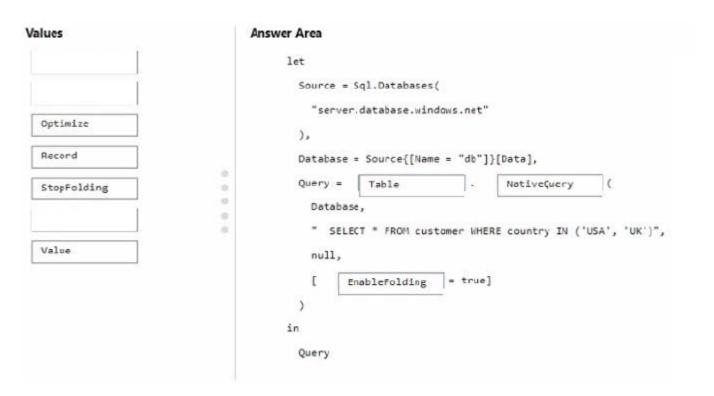
How should you complete the code? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content. NOTE: Each correct selection is worth one point.

2024 Latest pass4itsure DP-600 PDF and VCE dumps Download

#### Select and Place:



#### Correct Answer:



You should complete the code as follows: Table NativeQuery EnableFolding

In Power Query, using Table before the SQL statement ensures that the result of the SQL query is treated as a table. NativeQuery allows a native database query to be passed through from Power Query to the source database. The EnableFolding option ensures that any subsequent transformations that can be folded will be sent back and executed at



2024 Latest pass4itsure DP-600 PDF and VCE dumps Download

the source database (Microsoft SQL Server engine in this case).

#### **QUESTION 5**

You need to create a data loading pattern for a Type 1 slowly changing dimension (SCD).

Which two actions should you include in the process? Each correct answer presents part of the solution.

NOTE: Each correct answer is worth one point.

- A. Update rows when the non-key attributes have changed.
- B. Insert new rows when the natural key exists in the dimension table, and the non-key attribute values have changed.
- C. Update the effective end date of rows when the non-key attribute values have changed.
- D. Insert new records when the natural key is a new value in the table.

Correct Answer: AD

Explanation: For a Type 1 SCD, you should include actions that update rows when non- key attributes have changed (A), and insert new records when the natural key is a new value in the table (D). A Type 1 SCD does not track historical data, so you always overwrite the old data with the new data for a given key. References = Details on Type 1 slowly changing dimension patterns can be found in data warehousing literature and Microsoft\\'s official documentation.

#### **QUESTION 6**

You have a Fabric tenant that contains a lakehouse named lakehouse1. Lakehouse1 contains an unpartitioned table named Table1.

You plan to copy data to Table1 and partition the table based on a date column in the source data.

You create a Copy activity to copy the data to Table1.

You need to specify the partition column in the Destination settings of the Copy activity.

What should you do first?

- A. From the Destination tab, set Mode to Append.
- B. From the Destination tab, select the partition column,
- C. From the Source tab, select Enable partition discovery
- D. From the Destination tab, set Mode to Overwrite.

Correct Answer: A

Explanation: Before specifying the partition column in the Destination settings of the Copy activity, you should set Mode to Append (A). This will allow the Copy activity to add data to the table while taking the partition column into account. References = The configuration options for Copy activities and partitioning in Azure Data Factory, which are applicable to Fabric dataflows, are outlined in the official Azure Data Factory documentation.

2024 Latest pass4itsure DP-600 PDF and VCE dumps Download

#### **QUESTION 7**

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	
Orderld	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 multiplie Quantity and Price	
TotalQuantity	Integer	Measure	

You need to reduce the memory used by Model! 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. Split OrderDateTime into separate date and time columns.
- B. Replace TotalQuantity with a calculated column.
- C. Convert Quantity into the Text data type.
- D. Replace TotalSalesAmount with a measure.

Correct Answer: AD

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. References = 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.

#### **QUESTION 8**

You have a Fabric tenant that contains a lakehouse.

You are using a Fabric notebook to save a large DataFrame by using the following code.

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Hot Area:



2024 Latest pass4itsure DP-600 PDF and VCE dumps Download

Statements	Yes	No
The results will form a hierarchy of folders for each partition key.	0	0
The resulting file partitions can be read in parallel across multiple nodes.	0	0
The resulting file partitions will use file compression.	0	0
Correct Answer:		
Statements	Yes	No
The results will form a hierarchy of folders for each partition key.	0	0
The resulting file partitions can be read in parallel across multiple nodes.	0	0
The resulting file partitions will use file compression.	0	0

The results will form a hierarchy of folders for each partition key. - Yes The resulting file partitions can be read in parallel across multiple nodes. - Yes The resulting file partitions will use file compression. - No

Partitioning data by columns such as year, month, and day, as shown in the DataFrame write operation, organizes the output into a directory hierarchy that reflects the partitioning structure. This organization can improve the performance of read operations, as queries that filter by the partitioned columns can scan only the relevant directories. Moreover, partitioning facilitates parallelism because each partition can be processed independently across different nodes in a distributed system like Spark. However, the code snippet provided does not explicitly specify that file compression should be used, so we cannot assume that the output will be compressed without additional context. References = DataFrame write partitionBy Apache Spark optimization with partitioning

#### **QUESTION 9**

You have a Fabric tenant that contains a warehouse.

You use a dataflow to load a new dataset from OneLake to the warehouse.

You need to add a Power Query step to identify the maximum values for the numeric columns.

Which function should you include in the step?

- A. Table. MaxN
- B. Table.Max
- C. Table.Range
- D. Table.Profile

# VCE & PDF Pass4itSure.com

# https://www.pass4itsure.com/dp-600.html

2024 Latest pass4itsure DP-600 PDF and VCE dumps Download

Correct Answer: B

Explanation: The Table.Max function should be used in a Power Query step to identify the maximum values for the numeric columns. This function is designed to calculate the maximum value across each column in a table, which suits the requirement of finding maximum values for numeric columns. References = For detailed information on Power Query functions, including Table.Max, please refer to Power Query M function reference.

#### **QUESTION 10**

You have a Fabric tenant tha1 contains a takehouse named Lakehouse1. Lakehouse1 contains a Delta table named Customer.

When you query Customer, you discover that the query is slow to execute. You suspect that maintenance was NOT performed on the table.

You need to identify whether maintenance tasks were performed on Customer.

Solution: You run the following Spark SQL statement:

**REFRESH TABLE customer** 

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Explanation: No, the REFRESH TABLE statement does not provide information on whether maintenance tasks were performed. It only updates the metadata of a table to reflect any changes on the data files. References = The use and effects of the REFRESH TABLE command are explained in the Spark SQL documentation.

#### **QUESTION 11**

You have a Fabric tenant that contains a semantic model. The model uses Direct Lake mode.

You suspect that some DAX queries load unnecessary columns into memory.

You need to identify the frequently used columns that are loaded into memory.

What are two ways to achieve the goal? Each correct answer presents a complete solution.

NOTE: Each correct answer is worth one point.

- A. Use the Analyze in Excel feature.
- B. Use the Vertipaq Analyzer tool.
- C. Query the \$system.discovered\_STORAGE\_TABLE\_COLUMN-iN\_SEGMeNTS dynamic management view (DMV).
- D. Query the discover\_hehory6Rant dynamic management view (DMV).



2024 Latest pass4itsure DP-600 PDF and VCE dumps Download

Correct Answer: BC

Explanation: The Vertipaq Analyzer tool (B) and querying the

\$system.discovered\_STORAGE\_TABLE\_COLUMNS\_IN\_SEGMENTS dynamic management view (DMV) (C) can help identify which columns are frequently loaded into memory. Both methods provide insights into the storage and retrieval aspects of the semantic model. References = The Power BI documentation on Vertipaq Analyzer and DMV queries offers detailed guidance on how to use these tools for performance analysis.

#### **QUESTION 12**

You are creating a semantic model in Microsoft Power BI Desktop.

You plan to make bulk changes to the model by using the Tabular Model Definition Language (TMDL) extension for Microsoft Visual Studio Code.

You need to save the semantic model to a file.

Which file format should you use?

- A. PBIP
- B. PBIX
- C. PBIT
- D. PBIDS

Correct Answer: B

Explanation: When saving a semantic model to a file that can be edited using the Tabular Model Scripting Language (TMSL) extension for Visual Studio Code, the PBIX (Power BI Desktop) file format is the correct choice. The PBIX format contains the report, data model, and queries, and is the primary file format for editing in Power BI Desktop. References = Microsoft\\'s documentation on Power BI file formats and Visual Studio Code provides further clarification on the usage of PBIX files.

#### **QUESTION 13**

You have a Fabric workspace named Workspace1 and an Azure Data Lake Storage Gen2 account named storage"!. Workspace1 contains a lakehouse named Lakehouse1.

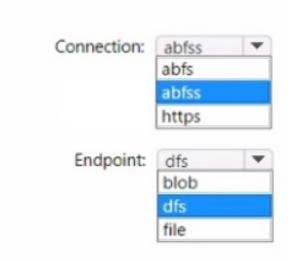
You need to create a shortcut to storage! in Lakehouse1.

Which connection and endpoint should you specify? To answer, select the appropriate options in the answer area.

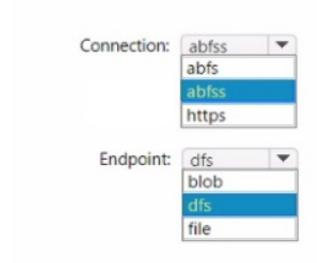
NOTE: Each correct selection is worth one point.

Hot Area:

2024 Latest pass4itsure DP-600 PDF and VCE dumps Download



#### Correct Answer:



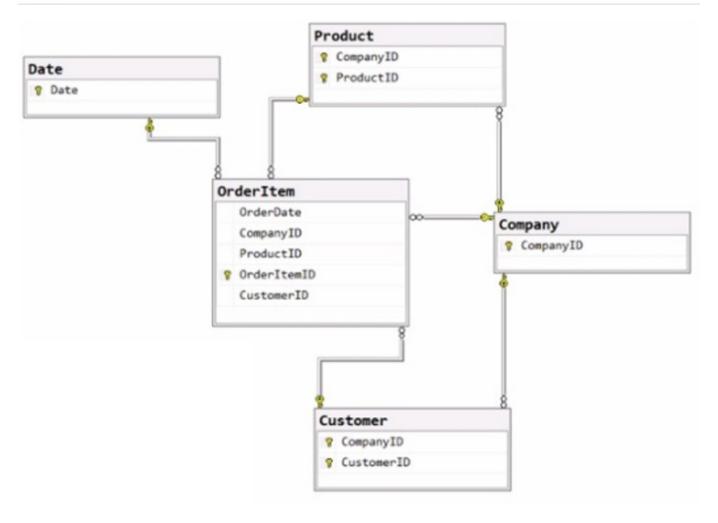
When creating a shortcut to an Azure Data Lake Storage Gen2 account in a lakehouse, you should use the abfss (Azure Blob File System Secure) connection string and the dfs (Data Lake File System) endpoint. The abfss is used for secure

access to Azure Data Lake Storage, and the dfs endpoint indicates that the Data Lake Storage Gen2 capabilities are to be used.

#### **QUESTION 14**

You have the source data model shown in the following exhibit.

2024 Latest pass4itsure DP-600 PDF and VCE dumps Download



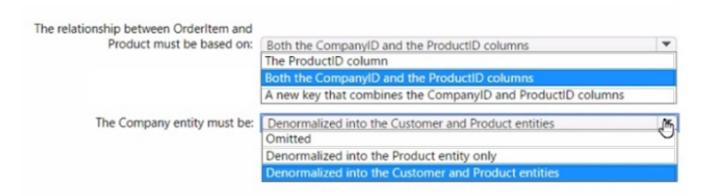
The primary keys of the tables are indicated by a key symbol beside the columns involved in each key.

You need to create a dimensional data model that will enable the analysis of order items by date, product, and customer.

What should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

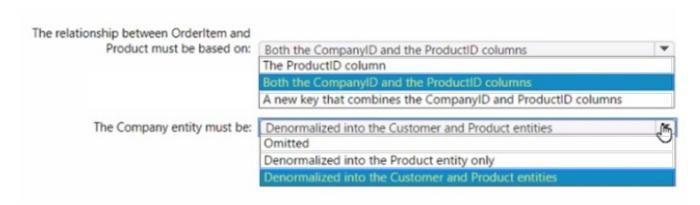
Hot Area:



Correct Answer:



2024 Latest pass4itsure DP-600 PDF and VCE dumps Download



The relationship between OrderItem and Product must be based on: Both the CompanyID and the ProductID columns The Company entity must be: Denormalized into the Customer and Product entities

In a dimensional model, the relationships are typically based on foreign key constraints between the fact table (OrderItem) and dimension tables (Product, Customer, Date). Since CompanyID is present in both the OrderItem and Product tables, it acts as a foreign key in the relationship. Similarly, ProductID is a foreign key that relates these two tables. To enable analysis by date, product, and customer, the Company entity would need to be denormalized into the Customer and Product entities to ensure that the relevant company information is available within those dimensions for querying and reporting purposes.

References = Dimensional modeling Star schema design

#### **QUESTION 15**

You have a Fabric tenant that contains a lakehouse named lakehouse1. Lakehouse1 contains a table named Table1.

You are creating a new data pipeline.

You plan to copy external data to Table1. The schema of the external data changes regularly.

You need the copy operation to meet the following requirements:

Replace Table1 with the schema of the external data.

Replace all the data in Table1 with the rows in the external data.

You add a Copy data activity to the pipeline. What should you do for the Copy data activity?

- A. From the Source tab, add additional columns.
- B. From the Destination tab, set Table action to Overwrite.
- C. From the Settings tab, select Enable staging
- D. From the Source tab, select Enable partition discovery
- E. From the Source tab, select Recursively

Correct Answer: B

Explanation: For the Copy data activity, from the Destination tab, setting Table action to Overwrite (B) will ensure that



2024 Latest pass4itsure DP-600 PDF and VCE dumps Download

Table1 is replaced with the schema and rows of the external data, meeting the requirements of replacing both the schema and data of the destination table. References = Information about Copy data activity and table actions in Azure Data Factory, which can be applied to data pipelines in Fabric, is available in the Azure Data Factory documentation.

DP-600 PDF Dumps

**DP-600 VCE Dumps** 

**DP-600 Practice Test**