

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

Implementing Analytics Solutions Using Microsoft Fabric

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#### **QUESTION 1**

You have a Fabric tenant that contains a new semantic model in OneLake.

You use a Fabric notebook to read the data into a Spark DataFrame.

You need to evaluate the data to calculate the min, max, mean, and standard deviation values for all the string and numeric columns.

Solution: You use the following PySpark expression:

df.explain()

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Explanation: The df.explain() method does not meet the goal of evaluating data to calculate statistical functions. It is used to display the physical plan that Spark will execute. References = The correct usage of the explain() function can be found in the PySpark documentation.

#### **QUESTION 2**

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.

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#### **QUESTION 3**

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

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 4**

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

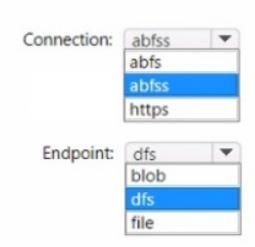
You need to create a shortcut to storage! in Lakehouse1.

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

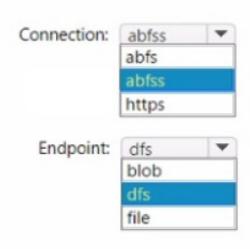
NOTE: Each correct selection is worth one point.

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#### 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 5**

You have a Fabric tenant that contains a machine learning model registered in a Fabric workspace. You need to use the model to generate predictions by using the predict function in a fabric notebook. Which two languages can you use to perform model scoring? Each correct answer presents a complete solution. NOTE: Each correct answer is worth one point.

A. T-SQL



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B. DAX EC.

C. Spark SQL

D. PySpark

Correct Answer: CD

Explanation: The two languages you can use to perform model scoring in a Fabric notebook using the predict function are Spark SQL (option C) and PySpark (option D). These are both part of the Apache Spark ecosystem and are supported for machine learning tasks in a Fabric environment. References = You can find more information about model scoring and supported languages in the context of Fabric notebooks in the official documentation on Azure Synapse Analytics.

#### **QUESTION 6**

You have a Fabric tenant that contains a data pipeline.

You need to ensure that the pipeline runs every four hours on Mondays and Fridays.

To what should you set Repeat for the schedule?

A. Daily

B. By the minute

C. Weekly

D. Hourly

Correct Answer: C

Explanation: You should set Repeat for the schedule to Weekly (C). This allows you to specify the pipeline to run on specific days of the week, in this case, every four hours on Mondays and Fridays. References = Scheduling options for data pipelines are available in the Azure Data Factory documentation, which includes details on configuring recurring triggers.

### **QUESTION 7**

You have a Fabric tenant that 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:

**DESCRIBE HISTORY customer** 

Does this meet the goal?

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A. Yes

B. No

Correct Answer: A

Explanation: Yes, the DESCRIBE HISTORY statement does meet the goal. It provides information on the history of operations, including maintenance tasks, performed on a Delta table. References = The functionality of the DESCRIBE HISTORY statement can be verified in the Delta Lake documentation.

#### **QUESTION 8**

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.

### **QUESTION 9**

You have a Fabric warehouse that contains a table named Staging. Sales. Staging. Sales contains the following columns.

Name	Data type	Nullable
ProductID	Integer	No
ProductName	Varchar(30)	No
SalesDate	Datetime2(6)	No
WholesalePrice	Decimal(18, 2)	Yes
Amount	Decimal(18, 2)	Yes

You need to write a T-SQL query that will return data for the year 2023 that displays ProductID and ProductName arxl

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has a summarized Amount that is higher than 10,000. Which query should you use?

SELECT ProductID, ProductName, SUM(Amount) AS TotalAmount FROM Staging.Sales WHERE DATEPART(YEAR,SaleDate) = '2023' GROUP BY ProductID, ProductName HAVING SUM(Amount) > 10000
SELECT ProductID, ProductName, SUM(Amount) AS TotalAmount FROM Staging.Sales GROUP BY ProductID, ProductName HAVING DATEPART(YEAR.SaleDate) = '2023' AND SUM(Amount) > 10000
SELECT ProductID, ProductName, SUM(Amount) AS TotalAmount FROM Staging.Sales WHERE DATEPART(YEAR,SaleDate) = '2023' AND SUM(Amount) > 10000
SELECT ProductID, ProductName, SUM(Amount) AS TotalAmount FROM Staging.Sales WHERE DATEPART(YEAR,SaleDate) = '2023' GROUP BY ProductID, ProductName HAVING TotalAmount > 10000

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

Correct 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.

# **QUESTION 10**

You have a data warehouse that contains a table named Stage. Customers. Stage-Customers contains all the customer record updates from a customer relationship management (CRM) system. There can be multiple updates per customer

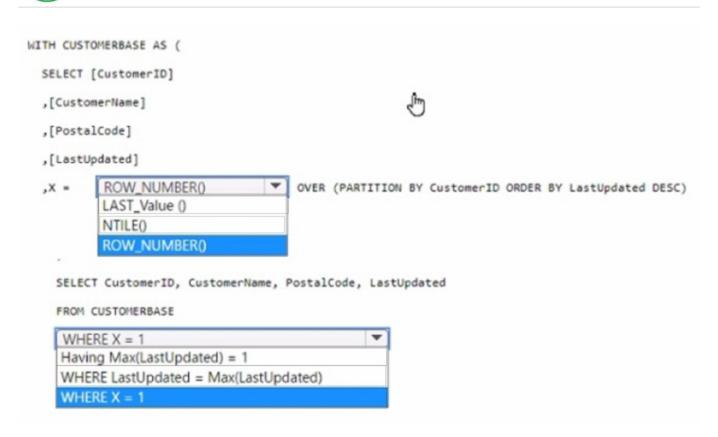
You need to write a T-SQL query that will return the customer ID, name, postal code, and the last updated time of the most recent row for each customer ID.

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

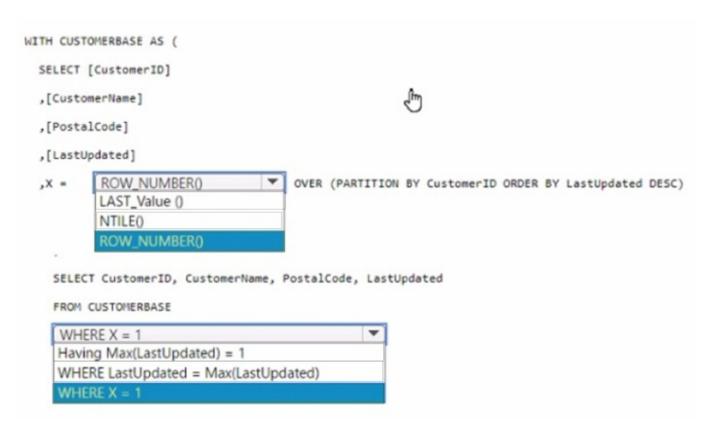
NOTE Each correct selection is worth one point.

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#### Correct Answer:



In the ROW\_NUMBER() function, choose OVER (PARTITION BY CustomerID

ORDER BY LastUpdated DESC).



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In the WHERE clause, choose WHERE X = 1.

To select the most recent row for each customer ID, you use the ROW\_NUMBER() window function partitioned by CustomerID and ordered by LastUpdated in descending order.

This will assign a row number of 1 to the most recent update for each customer. By selecting rows where the row number (X) is 1, you get the latest update per customer.

References =

Use the OVER clause to aggregate data per partition

Use window functions

#### **QUESTION 11**

You have a Fabric tenant that contains a workspace named Workspace\ Workspace\ is assigned to a Fabric capacity.

You need to recommend a solution to provide users with the ability to create and publish custom Direct Lake semantic models by using external tools. The solution must follow the principle of least privilege.

Which three actions in the Fabric Admin portal should you include in the recommendation? Each correct answer presents part of the solution.

NOTE: Each correct answer is worth one point.

- A. From the Tenant settings, set Allow XMLA Endpoints and Analyze in Excel with on- premises datasets to Enabled
- B. From the Tenant settings, set Allow Azure Active Directory guest users to access Microsoft Fabric to Enabled
- C. From the Tenant settings, select Users can edit data models in the Power BI service.
- D. From the Capacity settings, set XMLA Endpoint to Read Write
- E. From the Tenant settings, set Users can create Fabric items to Enabled
- F. From the Tenant settings, enable Publish to Web

Correct Answer: ACD

Explanation: For users to create and publish custom Direct Lake semantic models using external tools, following the principle of least privilege, the actions to be included are enabling XMLA Endpoints (A), editing data models in Power BI service (C), and setting XMLA Endpoint to Read-Write in the capacity settings (D). References = More information can be found in the Admin portal of the Power BI service documentation, detailing tenant and capacity settings.

# **QUESTION 12**

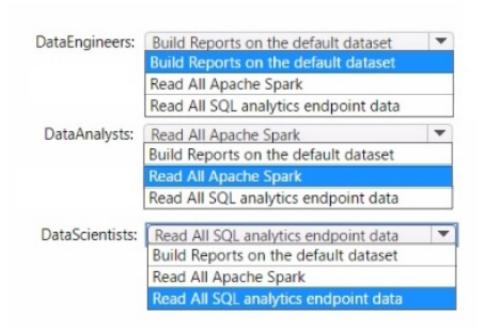
You to need assign permissions for the data store in the AnalyticsPOC workspace. The solution must meet the security requirements.

Which additional permissions should you assign when you share the data store? To answer, select the appropriate options in the answer area.

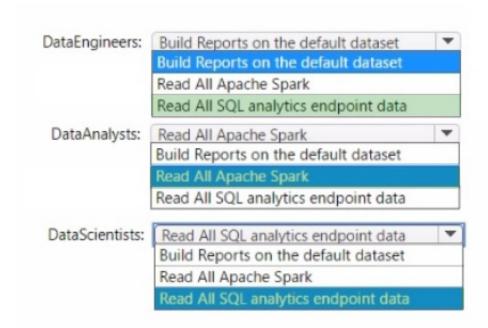
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NOTE: Each correct selection is worth one point.

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#### Correct Answer:



Data Engineers: Read All SQL analytics endpoint data

Data Analysts: Read All Apache Spark

Data Scientists: Read All SQL analytics endpoint data

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The permissions for the data store in the AnalyticsPOC workspace should align with the principle of least privilege:

Data Engineers need read and write access but not to datasets or reports.

Data Analysts require read access specifically to the dimensional model objects and the ability to create Power BI reports.

Data Scientists need read access via Spark notebooks. These settings ensure each role has the necessary permissions to fulfill their responsibilities without exceeding their required access level.

#### **QUESTION 13**

You need to provide Power BI developers with access to the pipeline. The solution must meet the following requirements:

Ensure that the developers can deploy items to the workspaces for Development and Test.

Prevent the developers from deploying items to the workspace for Production.

Follow the principle of least privilege.

Which three levels of access should you assign to the developers? Each correct answer presents part of the solution. NOTE: Each correct answer is worth one point.

- A. Build permission to the production semantic models
- B. Admin access to the deployment pipeline
- C. Viewer access to the Development and Test workspaces
- D. Viewer access to the Production workspace
- E. Contributor access to the Development and Test workspaces
- F. Contributor access to the Production workspace

Correct Answer: BDE

Explanation: To meet the requirements, developers should have Admin access to the deployment pipeline (B), Contributor access to the Development and Test workspaces (E), and Viewer access to the Production workspace (D). This setup ensures they can perform necessary actions in development and test environments without having the ability to affect production. References = The Power BI documentation on workspace access levels and deployment pipelines provides guidelines on assigning appropriate permissions.

### **QUESTION 14**

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

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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(customers).where(transactions.customer_id == customers.customer_id)

A. Option A

B. Option B
```

D. Option D

C. Option C

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 15**

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

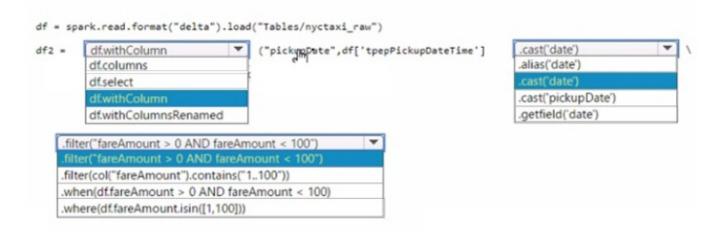
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Name	Data type	
pickupDateTime	Timestamp	
passengerCount	Integer	
fareAmount	Double	
paymentType	String	
tipAmount	Double	

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:

#### Correct Answer:



Add the pickupDate column: .withColumn("pickupDate",

df["pickupDateTime"].cast("date"))

Filter the DataFrame: .filter("fareAmount > 0 AND fareAmount

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.

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