



Free Questions for DP-600

Shared by Buckner on 16-04-2026

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Question 1

Question Type: MultipleChoice

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?

Options:

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

Answer:

C

Question 2

Question Type: MultipleChoice

You have a query in Power Query Editor that contains two columns named Order_Date and Shipping_Date.

You need to create a column that will calculate the number of days between Order_Date and Shipping_Date for each row.

Which Power Query function should you use?

Options:

- A- Duration.From
- B- Date.AddDays
- C- Duration.Days
- D- DateTime.LocalNow

Answer:

C

Explanation:

Comprehensive Detailed Explanation

Requirement

We have two columns in Power Query Editor:

Order_Date

Shipping_Date

We need to calculate the number of days between the two dates.

Step 1: How date differences work in Power Query (M language)

Subtracting two date or datetime values in Power Query returns a duration value.

Example:

```
[Shipping_Date] - [Order_Date]
```

This produces a duration such as 3.00:00:00 (3 days).

Step 2: Converting duration into days

To get the number of days as an integer, we use Duration.Days().

Example:

```
Duration.Days([Shipping_Date] - [Order_Date])
```

This returns 3 if the shipping date is 3 days after the order date.

Step 3: Evaluate other options

- A . Duration.From Converts a value to a duration type but does not extract the number of days.
- B . Date.AddDays Adds days to a given date, not used for calculating the difference.
- C . Duration.Days Correct, extracts total days from a duration.
- D . DateTime.LocalNow Returns the current system datetime, unrelated to this requirement.

Reference

Duration.Days function (Power Query M)

Working with dates in Power Query

Question 3

Question Type: MultipleChoice

You have a Fabric workspace named Workspace1 that contains an eventstream named Eventstream1.

Eventstream1 reads data from an Azure event hub named Eventhub1.

Eventhub1 contains the following columns.

Name

Data type

Machineld

Int

Payload

Dynamic

Datetime

Datetime

Location

String

You need to add a continuous percentile calculation to the Payload column. The solution must minimize development effort.

What should you do?

Options:

- A- Add a KQL queryset to Workspace1.
- B- Add a Group by transformation to Eventstream1.
- C- Add a Manage fields transformation to Eventstream1.
- D- Add an Aggregate transformation to Eventstream1.

Answer:

D

Question 4

Question Type: MultipleChoice

You have a semantic model named Model1 that contains data that relates to customers and their bank account balances.

Model1 has the following tables and columns.

Table name	Column name	Description
DimAccount	AccountKey	Surrogate key
	AccountNumber	Business key
	Date	Date a transaction occurred
FactTransaction	AccountKey	Foreign key to DimAccount
	Amount	Amount of each transaction
DimCustomer	CustomerKey	Surrogate key
	CustomerID	Business key
	CustomerName	Customer name

A customer can have one or more accounts. Each account can be associated to multiple customers.

You need to ensure that users can query Model1 to identify the total transaction amounts by customer.

What should you add to Model1?

Options:

- A- A many-to-many relationship between FactTransaction and DimCustomer
- B- The CustomerKey column in FactTransaction and a relationship to DimCustomer
- C- A bridge table with relationships to DimCustomer and DimAccount
- D- A bridge table with relationships to FactTransaction and DimCustomer

Answer:

C

Explanation:

Scenario:

Tables:

DimAccount (accounts)

FactTransaction (transactions)

DimCustomer (customers)

Business rule:

A customer can have multiple accounts.

An account can be linked to multiple customers.

Many-to-many relationship.

Requirement: Calculate total transaction amounts by customer.

Analysis:

Direct many-to-many between FactTransaction and DimCustomer would not properly resolve aggregation.

Adding CustomerKey directly in FactTransaction is not possible because transactions link to accounts, not customers directly.

Correct approach: Create a bridge table (CustomerAccount) that maps Customer Account.

Then link FactTransaction DimAccount Bridge DimCustomer.

Question 5

Question Type: MultipleChoice

You have a Fabric tenant that contains a warehouse.

You are designing a star schema model that will contain a customer dimension. The customer dimension table will be a Type 2 slowly changing dimension (SCD).

You need to recommend which columns to add to the table. The columns must NOT already exist in the source.

Which three types of columns should you recommend? Each correct answer presents part of the solution.

NOTE: Each correct answer is worth one point.

Options:

- A- an effective end date and time
- B- a foreign key
- C- a surrogate key
- D- a natural key
- E- an effective start date and time

Answer:

A, C, E

Explanation:

For a Type 2 slowly changing dimension (SCD), you typically need to add the following types of columns that do not exist in the source system:

An effective start date and time (E): This column records the date and time from which the data in the row is effective.

An effective end date and time (A): This column indicates until when the data in the row was effective. It allows you to keep historical records for changes over time.

A surrogate key (C): A surrogate key is a unique identifier for each row in a table, which is necessary for Type 2 SCDs to differentiate between historical and current records.

Question 6

Question Type: MultipleChoice

You have a Microsoft Power BI Premium Per User (PPU) workspace that contains a semantic model.

You have an Azure App Service app named App1 that modifies row-level security (RLS) for the model by using the XMLA endpoint. App1 requires users to sign in by using their Microsoft Entra credentials to access the XMLA endpoint. You need to configure App1 to use a service account to access the model. What should you do first?

Options:

- A- Add a managed identity to the workspace.
- B- Add a managed identity to App1.
- C- Upgrade the workspace to Premium capacity.
- D- Modify the XMLA Endpoint setting.

Answer:

B

Question 7

Question Type: MultipleChoice

You have an Azure Repos Git repository named Repo1 and a Fabric-enabled Microsoft Power BI Premium capacity. The capacity contains two workspaces named Workspace1 and Workspace2. Git integration is enabled at the workspace level.

You plan to use Microsoft Power BI Desktop and Workspace1 to make version-controlled changes to a semantic model stored in Repo1. The changes will be built and deployed to Workspace2 by using Azure Pipelines.

You need to ensure that report and semantic model definitions are saved as individual text files in a folder hierarchy. The solution must minimize development and maintenance effort.

In which file format should you save the changes?

Options:

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

Answer:

C

Explanation:

When working with Power BI Desktop and Git integration for version control, report and semantic model definitions should be saved in the PBIX format. PBIX is the Power BI Desktop file format that contains definitions for reports, data models, and queries, and it can be easily saved and tracked in a version-controlled environment. The solution should minimize development and maintenance effort, and saving in PBIX format allows for the easiest transition from development to deployment, especially when using Azure Pipelines for CI/CD (continuous integration/continuous deployment) practices.

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