Guidance for the DP-700 Exam: Data Engineering Solutions with Microsoft Fabric

Preparing for the DP-700 Exam? You're in the right place! This guide provides valuable insights into the world of *data engineering* and how *Microsoft Fabric* can aid in your success.

Understanding Microsoft Fabric

Microsoft Fabric is a powerful platform that simplifies the process of data integration, governance, and analytics. By leveraging the capabilities of Microsoft Fabric, you can streamline complex data workflows and enhance *data-driven decisions*.

The Importance of Data Engineering

Data engineering is the backbone of data management. It involves crafting robust architectures to support data analysis and ensures that data is accessible and usable. Focusing on data engineering helps you lay a solid foundation for any project.

Preparing for the DP-700 Exam

To succeed in the DP-700 Exam, you need a structured study plan. Consider the following tips:

- **Understand the exam structure:** Familiarize yourself with the types of questions and topics covered.
- **Create a study plan:** Allocate time effectively to each exam topic.
- **Use hands-on practice:** Engage with Microsoft Fabric to build confidence.

Diving into Azure Data Solutions

Microsoft Azure provides various data solutions that can support data engineering efforts. It's crucial to explore services like *Azure Data Factory*, *Azure Synapse Analytics*, and *Azure Data Lake Storage* while preparing. For in-depth guidance, refer to the [DP-700 resources](#).

Utilizing Data Integration Tools

Data integration tools play a vital role in connecting different data sources. Tools like *Azure Data Factory* can help you automate data workflows and ensure data quality. Check out relevant resources at [this link](#) for more insights.

Enhancing Your Learning Experience

Engage with the community. Join forums and discussion groups focused on data solutions. Sharing knowledge and tips can pave the way for better understanding and retention.

Resources for Success

Maximize your resources to enhance your skills. **Books**, *online tutorials*, and **practice tests** can provide additional support in your preparation journey.

Conclusion

The DP-700 Exam is an important milestone in your data engineering career. With the right preparation and resources, you can master the intricacies of Microsoft Fabric and excel in your exam. Emphasize hands-on practice, engage with other learners, and leverage the power of Azure to ensure your success.

Real Exam Questions 2025

Below given questions are for demo purposes only. **The full version** is up-to-date and contains actual questions and answers.

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Microsoft

DP-700 Exam

Implementing Data Engineering Solutions Using Microsoft Fabric

Version: 4.0

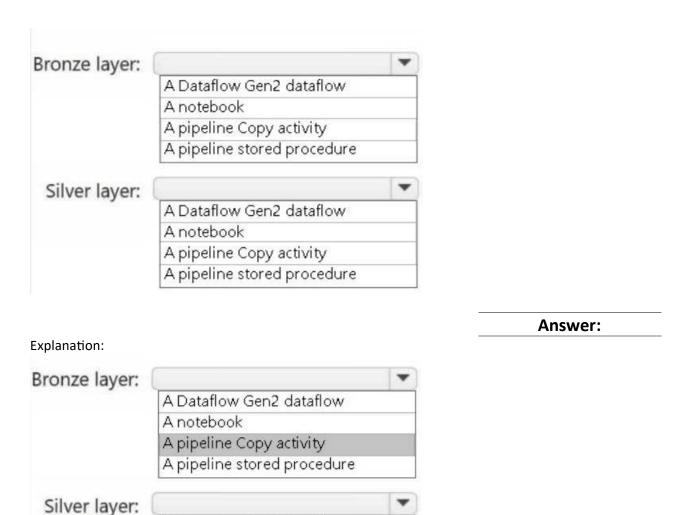## Question: 1

You need to ensure that the data analysts can access the gold layer lakehouse.
What should you do?

A. Add the DataAnalyst group to the Viewer role for WorkspaceA.
B. Share the lakehouse with the DataAnalysts group and grant the Build reports on the default semantic model permission.
C. Share the lakehouse with the DataAnalysts group and grant the Read all SQL Endpoint data permission.
D. Share the lakehouse with the DataAnalysts group and grant the Read all Apache Spark permission.

Answer: C

Explanation:

Data Analysts' Access Requirements must only have read access to the Delta tables in the gold layer and not have access to the bronze and silver layers.

The gold layer data is typically queried via SQL Endpoints. Granting the Read all SQL Endpoint data permission allows data analysts to query the data using familiar SQL-based tools while restricting access to the underlying files.

Question: 2

HOTSPOT

You need to recommend a method to populate the POS1 data to the lakehouse medallion layers.

What should you recommend for each layer? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Bronze layer:

| A Dataflow Gen2 dataflow |
| A notebook |
| A pipeline Copy activity |
| A pipeline stored procedure |

Silver layer:

| A Dataflow Gen2 dataflow |
| A notebook |
| A pipeline Copy activity |
| A pipeline stored procedure |

Answer:

Explanation:

Bronze layer:

| A Dataflow Gen2 dataflow |
| A notebook |
| A pipeline Copy activity |
| A pipeline stored procedure |

Silver layer:

| A Dataflow Gen2 dataflow |
| A notebook |
| A pipeline Copy activity |
| A pipeline stored procedure |

Bronze Layer: A pipeline Copy activity
The bronze layer is used to store raw, unprocessed dat

a. The requirements specify that no transformations should be applied before landing the data in this
layer. Using a pipeline Copy activity ensures minimal development effort, built-in connectors, and the
ability to ingest the data directly into the Delta format in the bronze layer.

Silver Layer: A notebook
The silver layer involves extensive data cleansing (deduplication, handling missing values, and
standardizing capitalization). A notebook provides the flexibility to implement complex transformations
and is well-suited for this task.

Question: 3
You need to ensure that usage of the data in the Amazon S3 bucket meets the technical requirements.

What should you do?

A. Create a workspace identity and enable high concurrency for the notebooks.
B. Create a shortcut and ensure that caching is disabled for the workspace.
C. Create a workspace identity and use the identity in a data pipeline.
D. Create a shortcut and ensure that caching is enabled for the workspace.

Answer: B

Explanation:

To ensure that the usage of the data in the Amazon S3 bucket meets the technical requirements, we must address two key points:
▪ Minimize egress costs associated with cross-cloud data access: Using a shortcut ensures that Fabric does not replicate the data from the S3 bucket into the lakehouse but rather provides direct access to the data in its original location. This minimizes cross-cloud data transfer and avoids additional egress costs.
▪ Prevent saving a copy of the raw data in the lakehouses: Disabling caching ensures that the raw data is not copied or persisted in the Fabric workspace. The data is accessed on-demand directly from the Amazon S3 bucket.
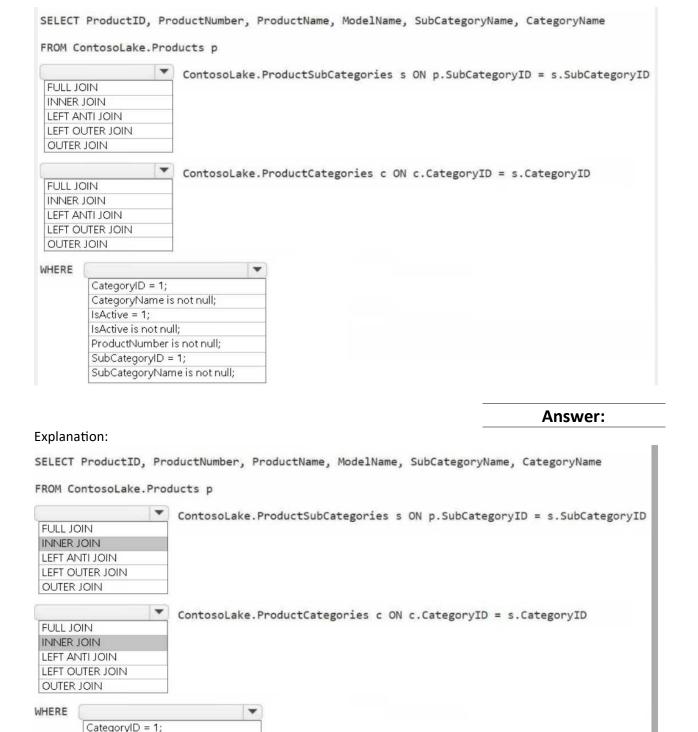
Question: 4

HOTSPOT

You need to create the product dimension.

How should you complete the Apache Spark SQL code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

```
SELECT ProductID, ProductNumber, ProductName, ModelName, SubCategoryName, CategoryName

FROM ContosoLake.Products p
```

[▼]
FULL JOIN
INNER JOIN
LEFT ANTI JOIN
LEFT OUTER JOIN
OUTER JOIN

`ContosoLake.ProductSubCategories s ON p.SubCategoryID = s.SubCategoryID`

[▼]
FULL JOIN
INNER JOIN
LEFT ANTI JOIN
LEFT OUTER JOIN
OUTER JOIN

`ContosoLake.ProductCategories c ON c.CategoryID = s.CategoryID`

WHERE

[▼]
CategoryID = 1;
CategoryName is not null;
IsActive = 1;
IsActive is not null;
ProductNumber is not null;
SubCategoryID = 1;
SubCategoryName is not null;

Answer:

Explanation:

```
SELECT ProductID, ProductNumber, ProductName, ModelName, SubCategoryName, CategoryName

FROM ContosoLake.Products p
```

[▼]
FULL JOIN
INNER JOIN
LEFT ANTI JOIN
LEFT OUTER JOIN
OUTER JOIN

`ContosoLake.ProductSubCategories s ON p.SubCategoryID = s.SubCategoryID`

[▼]
FULL JOIN
INNER JOIN
LEFT ANTI JOIN
LEFT OUTER JOIN
OUTER JOIN

`ContosoLake.ProductCategories c ON c.CategoryID = s.CategoryID`

WHERE

[▼]
CategoryID = 1;
CategoryName is not null;
IsActive = 1;
IsActive is not null;
ProductNumber is not null;
SubCategoryID = 1;
SubCategoryName is not null;

Join between Products and ProductSubCategories:

▪Use an INNER JOIN.
▪The goal is to include only products that are assigned to a subcategory. An INNER JOIN ensures that only matching records (i.e., products with a valid subcategory) are included.

Join between ProductSubCategories and ProductCategories:
▪Use an INNER JOIN.
▪Similar to the above logic, we want to include only subcategories assigned to a valid product category. An INNER JOIN ensures this condition is met.

WHERE Clause
Condition: IsActive = 1
Only active products (where IsActive equals 1) should be included in the gold layer. This filters out inactive products.

Question: 5

You need to populate the MAR1 data in the bronze layer.

Which two types of activities should you include in the pipeline? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. ForEach
B. Copy data
C. WebHook
D. Stored procedure

Answer: AB

Explanation:

MAR1 has seven entities, each accessible via a different API endpoint. A ForEach activity is required to iterate over these endpoints to fetch data from each one. It enables dynamic execution of API calls for each entity.

The Copy data activity is the primary mechanism to extract data from REST APIs and load it into the bronze layer in Delta format. It supports native connectors for REST APIs and Delta, minimizing development effort.

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