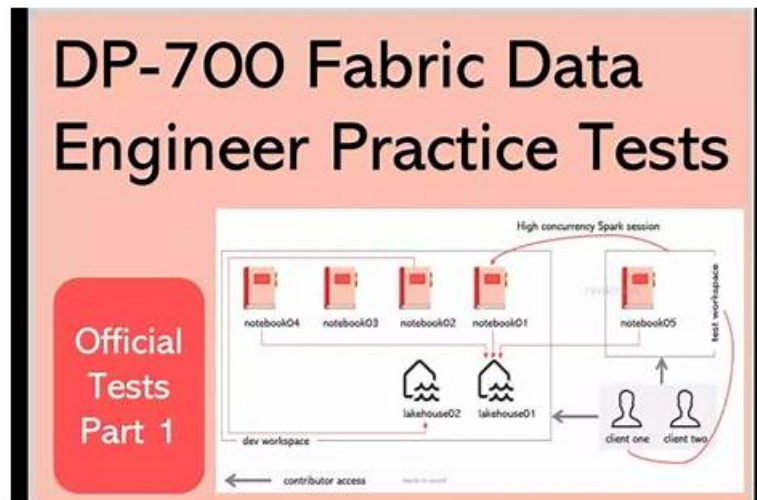


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Microsoft DP-700 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Ingest and transform data: This section of the exam measures the skills of Data Engineers that cover designing and implementing data loading patterns. It emphasizes preparing data for loading into dimensional models, handling batch and streaming data ingestion, and transforming data using various methods. A skill to be measured is applying appropriate transformation techniques to ensure data quality.
Topic 2	<ul style="list-style-type: none">• Monitor and optimize an analytics solution: This section of the exam measures the skills of Data Analysts in monitoring various components of analytics solutions in Microsoft Fabric. It focuses on tracking data ingestion, transformation processes, and semantic model refreshes while configuring alerts for error resolution. One skill to be measured is identifying performance bottlenecks in analytics workflows.
Topic 3	<ul style="list-style-type: none">• Implement and manage an analytics solution: This section of the exam measures the skills of Microsoft Data Analysts regarding configuring various workspace settings in Microsoft Fabric. It focuses on setting up Microsoft Fabric workspaces, including Spark and domain workspace configurations, as well as implementing lifecycle management and version control. One skill to be measured is creating deployment pipelines for analytics solutions.

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Microsoft Implementing Data Engineering Solutions Using Microsoft Fabric Sample Questions (Q10-Q15):

NEW QUESTION # 10

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a Fabric eventstream that loads data into a table named Bike_Location in a KQL database. The table contains the following columns:

BikepointID

Street

Neighbourhood

No_Bikes

No_Empty_Docks

Timestamp

You need to apply transformation and filter logic to prepare the data for consumption. The solution must return data for a neighbourhood named Sands End when No_Bikes is at least 15. The results must be ordered by No_Bikes in ascending order.

Solution: You use the following code segment:

```
bike_location
| filter Neighbourhood == "Sands End" and No_Bikes >= 15
| order by No_Bikes
| project BikepointID, Street, Neighbourhood, No_Bikes, No_Empty_Docks, Timestamp
```

Does this meet the goal?

- A. no
- B. Yes

Answer: A

Explanation:

This code does not meet the goal because it uses order by, which is not valid in KQL. The correct term in KQL is sort by.

Correct code should look like:

```
bike_location
| filter Neighbourhood == "Sands End" and No_Bikes >= 15
| sort by No_Bikes asc
| project BikepointID, Street, Neighbourhood, No_Bikes, No_Empty_Docks, Timestamp
```

Topic 1, Litware, Inc Case Study

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

Overview

Litware, Inc. is a publishing company that has an online bookstore and several retail bookstores worldwide.

Litware also manages an online advertising business for the authors it represents.

Existing Environment. Fabric Environment

Litware has a Fabric workspace named Workspace1. High concurrency is enabled for Workspace1.

The company has a data engineering team that uses Python for data processing.

Existing Environment. Data Processing

The retail bookstores send sales data at the end of each business day, while the online bookstore constantly provides logs and sales data to a central enterprise resource planning (ERP) system.

Litware implements a medallion architecture by using the following three layers: bronze, silver, and gold. The sales data is ingested from the ERP system as Parquet files that land in the Files folder in a lakehouse.

Notebooks are used to transform the files in a Delta table for the bronze and silver layers. The gold layer is in a warehouse that has V-Order disabled.

Litware has image files of book covers in Azure Blob Storage. The files are loaded into the Files folder.

Existing Environment. Sales Data

Month-end sales data is processed on the first calendar day of each month. Data that is older than one month never changes.

In the source system, the sales data refreshes every six hours starting at midnight each day.

The sales data is captured in a Dataflow Gen1 dataflow. When the dataflow runs, new and historical data is captured. The dataflow captures the following fields of the source:

Sales Date

Author

Price

Units

SKU

A table named AuthorSales stores the sales data that relates to each author. The table contains a column named AuthorEmail.

Authors authenticate to a guest Fabric tenant by using their email address.

Existing Environment. Security Groups

Litware has the following security groups:

Sales

Fabric Admins

Streaming Admins

Existing Environment. Performance Issues

Business users perform ad-hoc queries against the warehouse. The business users indicate that reports against the warehouse sometimes run for two hours and fail to load as expected. Upon further investigation, the data engineering team receives the following error message when the reports fail to load: "The SQL query failed while running." The data engineering team wants to debug the issue and find queries that cause more than one failure.

When the authors have new book releases, there is often an increase in sales activity. This increase slows the data ingestion process.

The company's sales team reports that during the last month, the sales data has NOT been up-to-date when they arrive at work in the morning.

Requirements. Planned Changes

Litware recently signed a contract to receive book reviews. The provider of the reviews exposes the data in Amazon Simple Storage Service (Amazon S3) buckets.

Litware plans to manage Search Engine Optimization (SEO) for the authors. The SEO data will be streamed from a REST API.

Requirements. Version Control

Litware plans to implement a version control solution in Fabric that will use GitHub integration and follow the principle of least privilege.

Requirements. Governance Requirements

To control data platform costs, the data platform must use only Fabric services and items. Additional Azure resources must NOT be provisioned.

Requirements. Data Requirements

Litware identifies the following data requirements:

Process the SEO data in near-real-time (NRT).

Make the book reviews available in the lakehouse without making a copy of the data.

When a new book cover image arrives in the Files folder, process the image as soon as possible.

NEW QUESTION # 11

You need to ensure that WorkspaceA can be configured for source control. Which two actions should you perform?

Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. From Tenant setting, set Users can synchronize workspace items with their Git repositories to Enabled
- B. Assign WorkspaceA to Capl.
- C. Configure WorkspaceA to use a Premium Per User (PPU) license
- D. From Tenant setting, set Users can sync workspace items with GitHub repositories to Enabled

Answer: A,B

NEW QUESTION # 12

You have a Fabric workspace that contains an eventhouse and a KQL database named Database1. Database1 has the following:

A table named Table1

A table named Table2

An update policy named Policy1

Policy1 sends data from Table1 to Table2.

The following is a sample of the data in Table2.

Timestamp (datetime)	DeviceId (guid)	StreamData (dynamic)
2024-05-18 12:45:17.16524	81416f30- 60a2-4e75- 9b19- 2a84ea059735	[{ "index": 0, "eventid": "719afca0- be30-4559-bb5e- 59feade642f6" }]
2024-05-18 12:45:21.76423	bb664e1e- 02aa-4e17- 8c8a- 116cd4458d52	[{ "index": 0, "eventid": "782222b2- fbc0-43c0-82d6-ecd49a99dbf5" }]
2024-05-18 12:45:23.98642	717bfe7d- 0e5d-498f- 9f21- e60aaf258056	[{ "index": 0, "eventid": "d5730286- 0da4-41f8-8e59-f75e209310a9" }]

Recently, the following actions were performed on Table1:

An additional element named temperature was added to the StreamData column.

The data type of the Timestamp column was changed to date.

The data type of the DeviceId column was changed to string.

You plan to load additional records to Table2.

Which two records will load from Table1 to Table2? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A.

Timestamp (datetime)	DeviceId (guid)	StreamData (dynamic)
2024-05-24	81416f30- 60a2-4e75- 9b19- 2a84ea059735	[{ "index": 0, "eventid": "719afca0-be30-4559-bb5e-59feade642f6" }]

- B.

Timestamp (datetime)	DeviceId (guid)	StreamData (dynamic)
2024-05-23	81416f3060a24e759b192a84ea05973532dhdyte3	[{ "index": 0, "eventId": "719afca0-be30-4559-bb5e-59feade642f6" }]

- C.

Timestamp (datetime)	DeviceId (guid)	StreamData (dynamic)
2024-05-21	81416f30	[{ "index": 0, "eventId": "719afca0-be30-4559-bb5e-59feade642f6", "temperature": 27 }]

- D.

Timestamp (datetime)	DeviceId (guid)	StreamData (dynamic)
2024-05-18	81416f30-60a2-4e75-9b19-2a84ea059735	[{ "index": 40, "eventId": "729afca2-be30-4559-bb5e-59feade642f3", "temperature": 32 }]

Answer: A,C

Explanation:

Changes to Table1 Structure:

StreamData column: An additional temperature element was added.

Timestamp column: Data type changed from datetime to date.

DeviceId column: Data type changed from guid to string.

Impact of Changes:

Only records that comply with Table2's structure will load.

Records that deviate from Table2's column data types or structure will be rejected.

Record B:

Timestamp: Matches Table2 (datetime format).

DeviceId: Matches Table2 (guid format).

StreamData: Contains only the index and eventId, which matches Table2.

Accepted because it fully matches Table2's structure and data types.

Record D:

Timestamp: Matches Table2 (datetime format).

DeviceId: Matches Table2 (guid format).

StreamData: Matches Table2's structure.


Accepted because it fully matches Table2's structure and data types.

NEW QUESTION # 13

You are building a data loading pattern by using a Fabric data pipeline. The source is an Azure SQL database that contains 25 tables. The destination is a lakehouse.

In a warehouse, you create a control table named ControlObject as shown in the exhibit. (Click the Exhibit tab.) You need to build a data pipeline that will support the dynamic ingestion of the tables listed in the control table by using a single execution.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
<ul style="list-style-type: none"> Add a Get metadata activity to query Control.Object and generate a list of schemas and tables to copy. 	 Microsoft
<ul style="list-style-type: none"> Add an Until activity to iterate over the list of tables and copy the source data to the lakehouse Delta tables. 	
<ul style="list-style-type: none"> Add a Lookup activity to query Control.Object and generate a list of the schemas and tables to copy. 	
<ul style="list-style-type: none"> Add a ForEach activity to iterate over the list of tables and copy the source data to the lakehouse Delta tables. 	
<ul style="list-style-type: none"> Add a Copy data activity as an inner activity to the iterator activity. 	

Answer:

Explanation:

Actions	Answer Area
<ul style="list-style-type: none"> Add a Get metadata activity to query Control.Object and generate a list of schemas and tables to copy. 	<ul style="list-style-type: none"> Add a Lookup activity to query Control.Object and generate a list of the schemas and tables to copy.
<ul style="list-style-type: none"> Add an Until activity to iterate over the list of tables and copy the source data to the lakehouse Delta tables. 	<ul style="list-style-type: none"> Add a ForEach activity to iterate over the list of tables and copy the source data to the lakehouse Delta tables.
<ul style="list-style-type: none"> Add a Lookup activity to query Control.Object and generate a list of the schemas and tables to copy. 	<ul style="list-style-type: none"> Add a Copy data activity as an inner activity to the iterator activity.
<ul style="list-style-type: none"> Add a ForEach activity to iterate over the list of tables and copy the source data to the lakehouse Delta tables. 	
<ul style="list-style-type: none"> Add a Copy data activity as an inner activity to the iterator activity. 	

NEW QUESTION # 14

You need to develop an orchestration solution in fabric that will load each item one after the other. The solution must be scheduled to run every 15 minutes. Which type of item should you use?

- A. warehouse
- B. data pipeline**
- C. Dataflow Gen2 dataflow
- D. notebook

Answer: B

NEW QUESTION # 15

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