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Microsoft DP-700 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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.
Topic 3	• 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.

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compiled all of the content to be contained in the shortest possible number of DP-700 exam questions. Additionally, the DP-700 exam questions and answers have been designed on the format of the real exam so that the candidates learn it without any extra effort. We have carefully considered every aspects for our customers. And our DP-700 Practice Braindumps are perfect in every detail.

Microsoft Implementing Data Engineering Solutions Using Microsoft Fabric Sample Questions (Q64-Q69):

NEW QUESTION # 64
You have a Google Cloud Storage (GCS) container named storage1 that contains the files shown in the following table.

Name	Size
ProductFile.parquet	8 MB
StoreFile.json	500 MB
TripsFile.csv	99 MB

You have a Fabric workspace named Workspace1 that has the cache for shortcuts enabled. Workspace1 contains a lakehouse named Lakehouse1. Lakehouse1 has the shortcuts shown in the following table.

Name	Source	Last accessed
Products	ProductFile	12 hours ago
Stores	StoreFile	4 hours ago
Trips	TripsFile	48 hours ago

You need to read data from all the shortcuts.
Which shortcuts will retrieve data from the cache?

- A. Trips only
- B. Stores only
- C. Products and Trips only
- D. Products, Stores, and Trips
- E. Stores and Products only
- F. Products only

Answer: E

Explanation:
When reading data from shortcuts in Fabric (in this case, from a lakehouse like Lakehouse1), the cache for shortcuts helps by storing the data locally for quick access. The last accessed timestamp and the cache expiration rules determine whether data is fetched from the cache or from the source (Google Cloud Storage, in this case).
Products: The ProductFile.parquet was last accessed 12 hours ago. Since the cache has data available for up to 12 hours, it is likely that this data will be retrieved from the cache, as it hasn't been too long since it was last accessed.
Stores: The StoreFile.json was last accessed 4 hours ago, which is within the cache retention period. Therefore, this data will also be retrieved from the cache.
Trips: The TripsFile.csv was last accessed 48 hours ago. Given that it's outside the typical caching window (assuming the cache has a maximum retention period of around 24 hours), it would not be retrieved from the cache. Instead, it will likely require a fresh read from the source.

NEW QUESTION # 65
You have a Fabric warehouse named DW1 that loads data by using a data pipeline named Pipeline1. Pipeline1 uses a Copy data activity with a dynamic SQL source. Pipeline1 is scheduled to run every 15 minutes.
You discover that Pipeline1 keeps failing.
You need to identify which SQL query was executed when the pipeline failed.
What should you do?

- A. From Real-time hub, select Fabric events, and then review the details of Microsoft.Fabric. ItemReadFailed.
- B. From Real-time hub, select Fabric events, and then review the details of Microsoft. Fabric. ItemUpdateFailed.
- C. From Monitoring hub, select the latest failed run of Pipeline1, and then view the output JSON.

- D. From Monitoring hub, select the latest failed run of Pipeline1, and then view the input JSON.

Answer: D

Explanation:
The input JSON contains the configuration details and parameters passed to the Copy data activity during execution, including the dynamically generated SQL query.
Viewing the input JSON for the failed pipeline run provides direct insight into what query was executed at the time of failure.

NEW QUESTION # 66
You have two Fabric workspaces named Workspace1 and Workspace2.
You have a Fabric deployment pipeline named deployPipeline1 that deploys items from Workspace1 to Workspace2.
DeployPipeline1 contains all the items in Workspace1.
You recently modified the items in Workspaces1.
The workspaces currently contain the items shown in the following table.

Workspace	Items
Workspace1	Model1 Notebook1 Report1 Lakehouse1 Pipeline1
Workspace2	Model1 Notebook2 Report1 Lakehouse2

Items in Workspace1 that have the same name as items in Workspace2 are currently paired.
You need to ensure that the items in Workspace1 overwrite the corresponding items in Workspace2. The solution must minimize effort.
What should you do?

- A. Delete all the items in Workspace2, and then run deployPipeline1.
- B. Rename each item in Workspace2 to have the same name as the items in Workspace1.
- C. Run deployPipeline1 without modifying the items in Workspace2.
- D. Back up the items in Workspace2, and then run deployPipeline1.

Answer: C

Explanation:
When running a deployment pipeline in Fabric, if the items in Workspace1 are paired with the corresponding items in Workspace2 (based on the same name), the deployment pipeline will automatically overwrite the existing items in Workspace2 with the modified items from Workspace1. There's no need to delete, rename, or back up items manually unless you need to keep versions. By simply running deployPipeline1, the pipeline will handle overwriting the existing items in Workspace2 based on the pairing, ensuring the latest version of the items is deployed with minimal effort.

NEW QUESTION # 67
You are processing streaming data from an external data provider.
You have the following code segment.

```
datatable (Location:string, Company:string, UnitsSold:long)
[
  "New York", "Contoso", 300,
  "New York", "Litware", 1000,
  "New York", "Relecloud", 300,
  "New York", "Fabrikam", 200,
  "Seattle", "Contoso", 300,
  "Seattle", "Litware", 100,
  "Seattle", "Fabrikam", 100,
  "San Francisco", "Relecloud", 500,
  "San Francisco", "Litware", 500,
  "Washington DC", "Litware", 300,
  "Washington DC", "Contoso", 400
]
| sort by Location desc, UnitsSold desc
| extend Rank=row rank dense(UnitsSold, prev(Location) != Location)
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Answer Area

Statements	Yes	No
Litware from New York will be displayed at the top of the result set.	○	○
Fabrikam in Seattle will have value = 2 in the Rank column.	⬚	○
Litware in San Francisco will have the same value in the Rank column as Litware in New York.	○	○

Answer:

Explanation:

Answer Area

Statements	Yes	No
Litware from New York will be displayed at the top of the result set.	●	○
Fabrikam in Seattle will have value = 2 in the Rank column.	⬚	●
Litware in San Francisco will have the same value in the Rank column as Litware in New York.	○	●

Topic 2, Contoso, Ltd

Overview

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. Company Overview

Contoso, Ltd. is an online retail company that wants to modernize its analytics platform by moving to Fabric. The company plans to begin using Fabric for marketing analytics.

Overview. IT Structure

The company's IT department has a team of data analysts and a team of data engineers that use analytics systems.

The data engineers perform the ingestion, transformation, and loading of data. They prefer to use Python or SQL to transform the data.

The data analysts query data and create semantic models and reports. They are qualified to write queries in Power Query and T-SQL.

Existing Environment. Fabric

Contoso has an F64 capacity named Cap1. All Fabric users are allowed to create items.

Contoso has two workspaces named WorkspaceA and WorkspaceB that currently use Pro license mode.

Existing Environment. Source Systems

Contoso has a point of sale (POS) system named POS1 that uses an instance of SQL Server on Azure Virtual Machines in the same Microsoft Entra tenant as Fabric. The host virtual machine is on a private virtual network that has public access blocked. POS1 contains all the sales transactions that were processed on the company's website.

The company has a software as a service (SaaS) online marketing app named MAR1. MAR1 has seven entities. The entities contain data that relates to email open rates and interaction rates, as well as website interactions. The data can be exported from MAR1 by calling REST APIs. Each entity has a different endpoint.

Contoso has been using MAR1 for one year. Data from prior years is stored in Parquet files in an Amazon Simple Storage Service (Amazon S3) bucket. There are 12 files that range in size from 300 MB to 900 MB and relate to email interactions.

Existing Environment. Product Data

POS1 contains a product list and related data. The data comes from the following three tables:

In the data, products are related to product subcategories, and subcategories are related to product categories.

Existing Environment. Azure

Contoso has a Microsoft Entra tenant that has the following mail-enabled security groups:

Contoso has an Azure subscription.

The company has an existing Azure DevOps organization and creates a new project for repositories that relate to Fabric.

Existing Environment. User Problems

The VP of marketing at Contoso requires analysis on the effectiveness of different types of email content. It typically takes a week to manually compile and analyze the data. Contoso wants to reduce the time to less than one day by using Fabric.

The data engineering team has successfully exported data from MAR1. The team experiences transient connectivity errors, which causes the data exports to fail.

Requirements. Planned Changes

Contoso plans to create the following two lakehouses:

Additional items will be added to facilitate data ingestion and transformation.

Contoso plans to use Azure Repos for source control in Fabric.

Requirements. Technical Requirements

The new lakehouses must follow a medallion architecture by using the following three layers: bronze, silver, and gold. There will be extensive data cleansing required to populate the MAR1 data in the silver layer, including deduplication, the handling of missing values, and the standardizing of capitalization.

Each layer must be fully populated before moving on to the next layer. If any step in populating the lakehouses fails, an email must be sent to the data engineers.

Data imports must run simultaneously, when possible.

The use of email data from the Amazon S3 bucket must meet the following requirements:

Items that relate to data ingestion must meet the following requirements:

Lakehouses, data pipelines, and notebooks must be stored in WorkspaceA. Semantic models, reports, and dataflows must be stored in WorkspaceB.

Once a week, old files that are no longer referenced by a Delta table log must be removed.

Requirements. Data Transformation

In the POS1 product data, ProductID values are unique. The product dimension in the gold layer must include only active products from product list. Active products are identified by an IsActive value of 1.

Some product categories and subcategories are NOT assigned to any product. They are NOT analytically relevant and must be omitted from the product dimension in the gold layer.

Requirements. Data Security

Security in Fabric must meet the following requirements:

NEW QUESTION # 68

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:

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
```

NEW QUESTION # 69

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