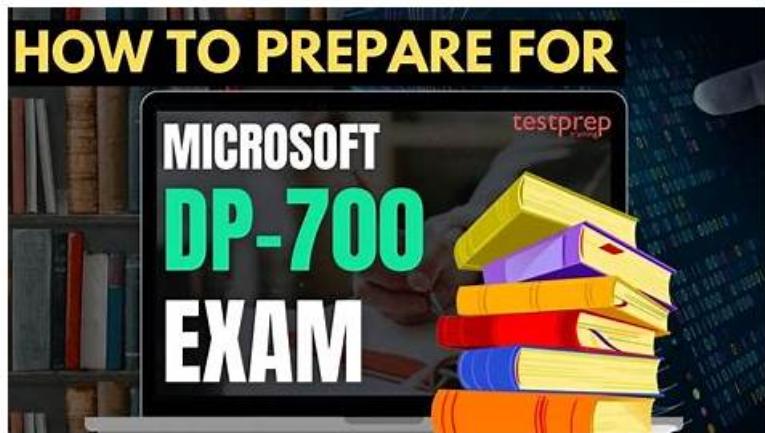


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Microsoft DP-700 Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
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">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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Microsoft Implementing Data Engineering Solutions Using Microsoft Fabric Sample Questions (Q63-Q68):

NEW QUESTION # 63

HOTSPOT

You have an Azure Event Hubs data source that contains weather data.

You ingest the data from the data source by using an eventstream named Eventstream1. Eventstream1 uses a lakehouse as the destination.

You need to batch ingest only rows from the data source where the City attribute has a value of Kansas. The filter must be added before the destination. The solution must minimize development effort.

What should you use for the data processor and filtering? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area



Data processor:

- A data pipeline
- A Dataflow Gen2 dataflow**
- An eventstream with a custom endpoint
- An eventstream with an external data source

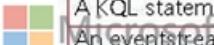
Filtering:

- A Filter activity in a data pipeline**
- A filter in a Dataflow Gen2 dataflow
- A KQL statement
- An eventstream processor

Answer:

Explanation:

Answer Area



Data processor:

- A data pipeline
- A Dataflow Gen2 dataflow**
- An eventstream with a custom endpoint
- An eventstream with an external data source

Filtering:

- A Filter activity in a data pipeline**
- A filter in a Dataflow Gen2 dataflow**
- A KQL statement
- An eventstream processor

NEW QUESTION # 64

HOTSPOT

You need to troubleshoot the ad-hoc query issue.

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

NOTE: Each correct selection is worth one point.

```
SELECT last_run_start_time, last_run_command
FROM
    queryinsights.exec_requests_history
    queryinsights.exec_sessions_history
    queryinsights.frequently_run_queries
    queryinsights.long_running_queries
WHERE last_run_total_elapsed_time_ms > 7200000
AND
    max_run_total_elapsed_time_ms > 7200000
    median_total_elapsed_time_ms > 7200000
    number_of_canceled_runs > 1
    number_of_failed_runs > 1
    number_of_runs > 1
```

Answer:

Explanation:

```
SELECT last_run_start_time, last_run_command
```

FROM

queryinsights.exec_requests_history
queryinsights.exec_sessions_history
queryinsights.frequently_run_queries
queryinsights.long_running_queries

```
WHERE last_run_total_elapsed_time_ms > 7200000
```

AND

max_run_total_elapsed_time_ms > 7200000
median_total_elapsed_time_ms > 7200000
number_of_canceled_runs > 1
number_of_failed_runs > 1
number_of_runs > 1

Answer Area

```
SELECT last_run_start_time, last_run_command
```

FROM

queryinsights.exec_requests_history
queryinsights.exec_sessions_history
queryinsights.frequently_run_queries
queryinsights.long_running_queries

```
WHERE last_run_total_elapsed_time_ms > 7200000
```

AND

max_run_total_elapsed_time_ms > 7200000
median_total_elapsed_time_ms > 7200000
number_of_canceled_runs > 1
number_of_failed_runs > 1
number_of_runs > 1

NEW QUESTION # 65

You have a Fabric workspace named Workspace1.

You plan to integrate Workspace1 with Azure DevOps.

You will use a Fabric deployment pipeline named deployPipeline1 to deploy items from Workspace1 to higher environment workspaces as part of a medallion architecture. You will run deployPipeline1 by using an API call from an Azure DevOps pipeline.

You need to configure API authentication between Azure DevOps and Fabric.

Which type of authentication should you use?

- A. workspace identity

- B. Microsoft Entra username and password
- **C. service principal**
- D. managed private endpoint

Answer: C

Explanation:

When integrating Azure DevOps with Fabric (Workspace1), using a service principal is the recommended authentication method. A service principal provides a way for applications (such as an Azure DevOps pipeline) to authenticate and interact with resources securely. It allows Azure DevOps to authenticate API calls to Fabric without requiring direct user credentials. This method is ideal for automating tasks such as deploying items through a Fabric deployment pipeline.

NEW QUESTION # 66

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
| sort by No_Bikes asc
| project BikepointID, Street, Neighbourhood, No_Bikes, No_Empty_Docks, Timestamp
```



Does this meet the goal?

- **A. Yes**
- B. no

Answer: A

Explanation:

Filter Condition: It correctly filters rows where Neighbourhood is "Sands End" and No_Bikes is greater than or equal to 15.

Sorting: The sorting is explicitly done by No_Bikes in ascending order using sort by No_Bikes asc.

Projection: It projects the required columns (BikepointID, Street, Neighbourhood, No_Bikes, No_Empty_Docks, Timestamp), which minimizes the data returned for consumption.

NEW QUESTION # 67

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
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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
| sort by No_Bikes
| project BikepointID, Street, Neighbourhood, No_Bikes, No_Empty_Docks, Timestamp
| 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 sort by without specifying the order, which defaults to ascending, but explicitly mentioning asc improves clarity.

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 # 68

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