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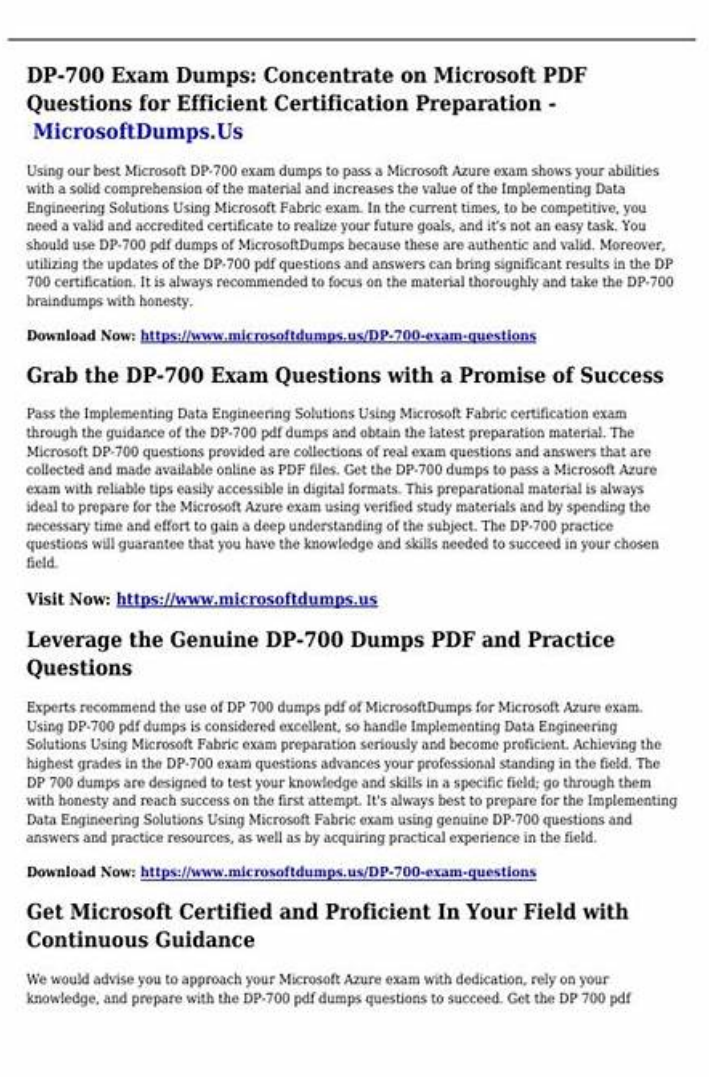

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Microsoft DP-750 Exam Syllabus Topics:

Section	Weight	Objectives

Prepare and process data	30-35%	- Data ingestion • 1. Streaming ingestion using Spark Structured Streaming • 2. Batch ingestion using COPY INTO and CTAS • 3. Auto Loader and CDC ingestion patterns - Data quality and validation • 1. Schema enforcement and validation rules • 2. Handling nulls, duplicates, and missing data • 3. Pipeline expectations and data quality constraints - Data transformation and modeling • 1. Delta Lake table design and SCD patterns • 2. Joins, aggregations, and normalization/denormalization • 3. SQL and PySpark transformations
Configure and manage Azure Databricks environments	15-20%	- Workspace and compute configuration • 1. Cluster types and configuration (job, all-purpose, serverless) • 2. Runtime, Spark, and Photon configuration • 3. Autoscaling, termination, and performance tuning - Security and authentication setup • 1. Azure Key Vault integration • 2. Access control for compute resources • 3. Service principals and managed identities
Secure and govern data using Unity Catalog	15-20%	- Access control and policies • 1. Row-level and column-level security • 2. Attribute-based access control (ABAC) • 3. Tags and policy enforcement - Data governance fundamentals • 1. Data lineage and auditing • 2. Catalog, schema, and table management
Deploy and manage data pipelines and workloads	30-35%	- Pipeline design and orchestration • 1. Databricks Jobs and Workflows • 2. Notebook-based vs declarative pipelines - Operational reliability • 1. Error handling and retries • 2. Monitoring and logging (Azure Monitor integration) - Lakehouse architecture operations • 1. Delta Lake optimization and clustering strategies • 2. Delta Live Tables pipelines

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Microsoft Implementing Data Engineering Solutions Using Azure Databricks Sample Questions (Q42-Q47):

NEW QUESTION # 42
Note: This section contains one or more sets of questions with the same scenario and problem. Each question presents a unique solution to the problem. You must determine whether the solution meets the stated goals. More than one solution in the set might solve the problem. It is also possible that none of the solutions in the set solve the problem.
After you answer a question in this section, you will NOT be able to return. As a result, these questions do not appear on the Review Screen.
You have an Azure Databricks workspace that is enabled for Unity Catalog and contains a Delta table named Orders.
You load the Orders table into an Apache Spark DataFrame named df.
You need to create a DataFrame that excludes rows where the order amount is null.
Solution: You run the following expression.
df.fillna(0, subset=['order_amount'])
Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:
Correct:
* You run the following expression.
df.dropna(subset=["order_amount"])
The expression df.dropna(subset=["order_amount"]) is an appropriate and effective way to exclude rows where order_amount is null.
* You run the following expression.
df.filter(df.order_amount.isNotNull())
To exclude rows where the order amount is null, you can use the isNotNull() method or a SQL expression within the filter() or where() functions.Here are the standard, appropriate expressions:
Option 1: Python/PySpark API (Recommended)
pythondf_clean = df.filter(df["order_amount"].isNotNull())
Incorrect:
* You run the following expression.
df.fillna(0, subset=['order_amount'])
* You run the following expression.
df.filter(df.order_amount != None)
Reference:
https://www.geeksforgeeks.org/python/filter-pyspark-dataframe-columns-with-none-or-null-values/
https://learn.microsoft.com/en-us/azure/databricks/pyspark/reference/classes/dataframe/dropna

NEW QUESTION # 43
You have an Azure Databricks workspace that is enabled for Unity Catalog and contains two catalogs named Catalog1 and Catalog2.
An external application uses a service principal named SP1 to connect to a SQL warehouse.
You need to ensure that SP1 can query the data in Catalog1 and Catalog2. The solution must follow the principle of least privilege.
Which permissions should you grant to SP1 for the catalogs?

- A. USE SCHEMA and SELECT
- B. USE CATALOG and SELECT
- C. USE CATALOG, USE SCHEMA, and SELECT
- D. USE CATALOG and USE SCHEMA

Answer: C

Explanation:
To ensure a service principal can query data in two specific catalogs while maintaining the principle of least privilege, you must assign the following permissions for each catalog:
Unified Catalog Permissions
USE CATALOG on the specific catalog: This is a prerequisite that allows the principal to see the catalog and its child objects.
USE SCHEMA on the schemas containing the data: This allows the principal to interact with the schemas within that catalog.
SELECT on the specific tables or views: This provides the actual read access required to query the data.
Reference:
https://learn.microsoft.com/en-us/purview/data-governance-roles-permissions

NEW QUESTION # 44
Case Study 1 - Contoso, Inc.
Overview
Company Information
Contoso, Inc. is a renewable energy provider that operates solar and wind farms across North America.
Existing Environment
Azure Environment
Contoso has a single Azure Databricks workspace named Workspace1 in the West US Azure region. Workspace1 is enabled for Unity Catalog.
Workspace1 contains all-purpose clusters for both development and production workloads.
The company's Azure environment contains:
- In the West US, Central US, and East US Azure regions, Azure event hubs that stream telemetry data and an Azure Data Lake Storage Gen2 account in each region for each hub
- A single Azure SQL database in the West US region that hosts enterprise resource planning (ERP) data
- An Azure Database for PostgreSQL server in the West US region that stores operational maintenance data Data Environment
Contoso ingests the following operational and business data:
- Telemetry data: More than 40,000 IoT sensors across 28 sites emit JSON telemetry events every few seconds. Each site sends the events to the nearest event hub, which writes the data into the corresponding Data Lake Storage Gen2 account. These files frequently experience schema drift.
- Maintenance logs: Maintenance systems generate historical repair logs, daily incremental updates, technician notes, and unstructured attachments that are stored in the Data Lake Storage Gen2 accounts.
- Operational maintenance data: Structured operational maintenance data is stored on the Azure Database for PostgreSQL server.
- External weather data: Hourly weather forecasts are retrieved from a REST API and written to the Data Lake Storage Gen2 accounts.
- ERP data: Daily CSV extracts of 50 to 100 GB contain equipment metadata, work orders, and purchase order information.
Problem Statements
The company's existing analytics environment has several issues:
Ingestion
- Telemetry pipelines fall behind during peak loads.
- Telemetry ingestion fails when schema drift occurs.
- Streaming pipelines reprocess events after a pipeline restarts.
Compute
Production and development workloads run on the same all-purpose clusters.
Production and development workloads do NOT support autoscaling or workload isolation.
Governance
- The ERP data is duplicated across systems and development teams.
- Naming conventions are inconsistent across development teams, regions, and products.
- Ownership of the IoT sensors changes over time, and analysts must track the full history of the ownership.
- Occasionally, equipment manufacturers must correct data-entry mistakes in equipment names.
Historical values are NOT required.
Pipeline operations
- Pipelines lack resiliency, alerting, and centralized scheduling.
Requirements
Planned Changes
Contoso plans to implement the following changes:
- Implement scalable data pipeline orchestration.
- Create a managed analytics catalog in Unity Catalog.
- Implement a consistent approach to creating curated datasets.

- Establish a centralized governance model across ingestion, cleansed, and curated layers.
- Grant data engineers access to the ERP tables by using minimal development effort.
- Adopt a compute strategy that isolates production workloads and supports autoscaling.
- Adopt a slowly changing dimension (SCD) approach to address current data modeling issues.

Technical Requirements

Contoso identifies the following environment and compute requirements:
- Ensure that production ingestion workloads run on compute clusters that can scale automatically during telemetry spikes.
- Provide fast and consistent performance for business intelligence (BI) workloads.
- Prevent development activity from affecting production pipelines.
- Production ingestion workloads must run as scheduled, non-interactive pipelines rather than on shared interactive development clusters.

Contoso identifies the following data ingestion and processing requirements:
- Auto-scale ingestion pipelines to handle bursty workloads.
- Handle schema drift for the maintenance and telemetry data.
- Ingest file-based telemetry data by using minimal operational effort.
- Store all the ingested data in a format that supports incremental processing.
- Support the continuous ingestion of telemetry data from the event hubs by using exactly-once semantics.
- Support the ingestion of the structured maintenance data from the Azure Database for PostgreSQL server.
- Build a new telemetry pipeline that ingests raw events from the event hubs, cleanses the data, and publishes curated tables to Unity Catalog.
- Ensure that the Apache Spark Structured Streaming pipelines reading from the event hubs write the data into a managed Delta table named telemetry.raw_events. The pipelines must support schema drift and resume processing after failures without reprocessing the data.

Contoso identifies the following data modeling and optimization requirements:
- Build curated tables that standardize business logic.
- Overwrite equipment metadata attributes, such as name, manufacturer, model, and commissioning date, when the attributes change. Historical values are NOT required.

Contoso identifies the following pipeline deployment and operation requirements:
- Orchestrate multi-step ingestion and transformation workflows.
- Define a clear execution order and dependencies.
- Automatically retry failed steps and notify operators.
- Schedule ingestion and transformation workloads consistently.

Governance Requirements

Contoso identifies the following governance requirements:
- Centralize the metadata catalog.
- Provide isolated development areas that follow standard naming conventions.
- Establish a consistent structure for organizing raw, cleansed, and curated data.
- Provide a read-only mechanism to reference the ERP data through a foreign catalog.

Business Requirements

Contoso identifies the following business requirements:
- Improve ingestion reliability and reduce operational effort.
- Standardize data definitions across development teams.

You need to configure compute for the ingestion of telemetry data. The solution must meet the data ingestion and processing requirements. What should you do?

- A. Increase an all-purpose cluster to a larger fixed node type.
- B. Enable Photon acceleration for a job compute cluster.
- C. Disable autoscaling for a job compute cluster.
- D. Move the ingestion pipelines to shared compute.

Answer: B

Explanation:

Enabling Photon acceleration on a job compute cluster is the best option. It significantly speeds up data engineering pipelines, handles JSON file ingestion seamlessly, and optimizes cost- efficiency for bursty production workloads, which are key for processing rapidly arriving IoT sensor events.

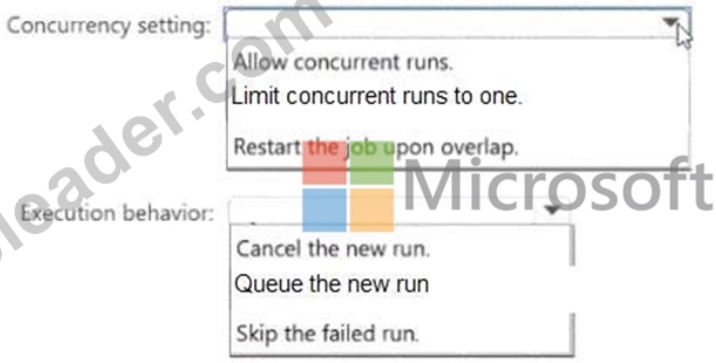
Enable Photon acceleration for a job compute cluster:

Databricks Auto Loader is designed for low-latency, high-volume file ingestion. Running Auto Loader on a job compute cluster provides the lowest operational cost because job clusters are billed at a much lower rate than all-purpose clusters.

Enabling Photon acceleration heavily optimizes the ingestion, parsing, and processing of raw JSON data strings, allowing the cluster to handle bursty workloads faster and auto-scale more efficiently.

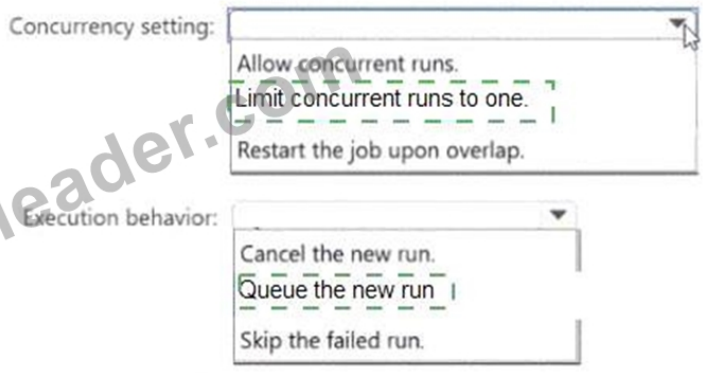
Scenario, Data Environment, Contoso ingests the following operational and business data:
Telemetry data: More than 40,000 IoT sensors across 28 sites emit JSON telemetry events every few seconds. Each site sends the events to the nearest event hub, which writes the data into the corresponding Data Lake Storage Gen2 account. These files frequently experience schema drift.
Contoso identifies the following data ingestion and processing requirements:
-> Auto-scale ingestion pipelines to handle bursty workloads.
Handle schema drift for the maintenance and telemetry data.
-> Ingest file-based telemetry data by using minimal operational effort.
Reference:
https://medium.com/@krthiak/10-days-of-data-engineering-interview-qna-day-5-db1c0b58bf86

NEW QUESTION # 45
You have an Azure Databricks workspace that contains a job in Lakeflow Jobs named Job1.
Job! runs every hour.
Occasionally, the job run takes longer than one hour to complete. Overlapping runs must be prevented to avoid data corruption.
You need to configure the job scheduling behavior.
What should you configure? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Answer Area



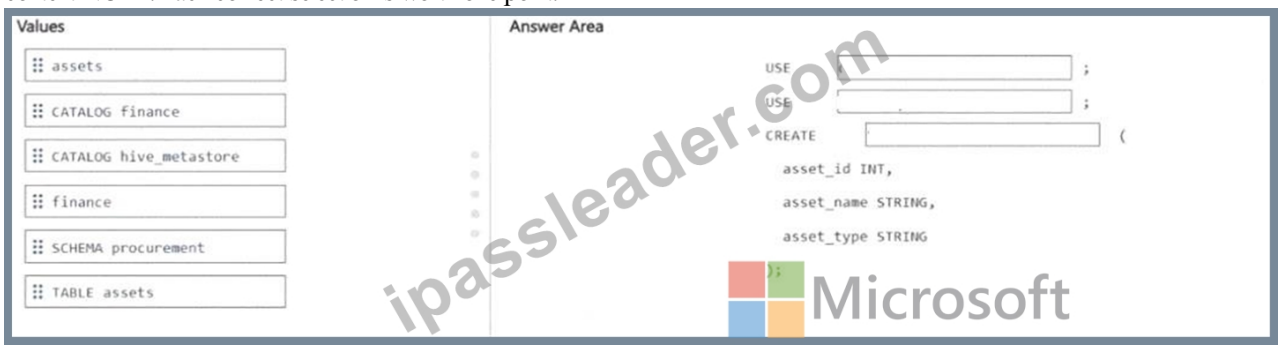
Answer:

Explanation:
Answer Area



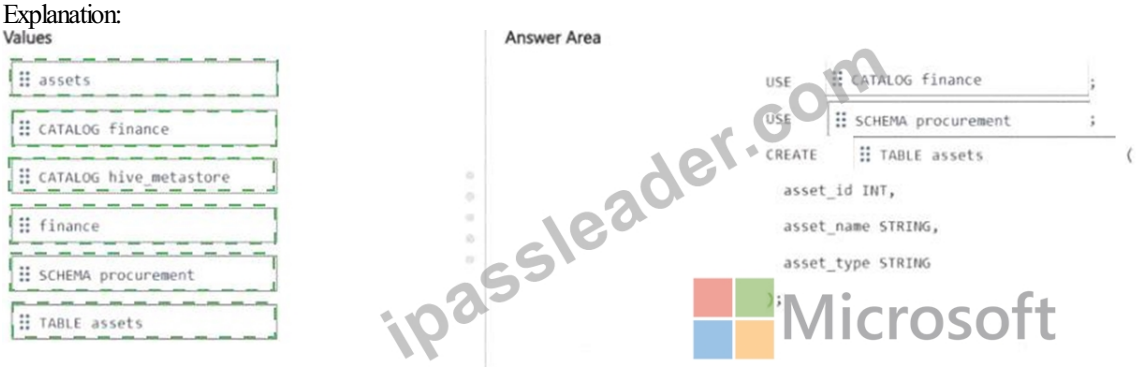
Explanation:
Two settings address the overlapping-run problem:
Concurrent Runs policy set to 'Skip' (or 'Allow only one concurrent run'). When a new scheduled trigger fires while the previous run is still in progress, the new run is skipped rather than starting alongside the ongoing one. This prevents two runs from writing to the same tables at the same time - which is the data corruption risk the question highlights.
Cron-based schedule for the hourly trigger. A cron expression defines the regular execution cadence.
Combined with the concurrency setting, the job runs hourly but never overlaps.
An alternative to 'Skip' is 'Wait' (queue the new run), which ensures every scheduled run eventually executes
- but for this scenario where overlapping is the primary concern, skipping the missed run is typically preferable to building up a queue of back-to-back executions.
Reference: https://learn.microsoft.com/en-us/azure/databricks/jobs/configure-jobs#concurrent-runs

NEW QUESTION # 46
You have an Azure Databricks workspace that is enabled for Unity Catalog and contains a catalog named finance, finance contains two schemas named default and procurement.
You need to create a table named assets in the procurement schema, assets must contain the following columns:
* asset.id
* asset, type
* asset_name
How should you complete the SQL statement? To answer, drag the appropriate values to the correct targets.
Each value may be used once, more than once, or not at all You may need to drag the split bar between panes or scroll to view content NOTE: Each correct selection is worth one point.



Answer:

Explanation:



Explanation:
The correct SQL statement uses the full three-part namespace finance.procurement.assets with the three specified columns.
In Unity Catalog, every object lives in a three-tier hierarchy: catalog # schema # table. Using the full path finance.procurement.assets guarantees the table lands in the right schema regardless of the session's current catalog or schema context. Omitting the catalog or schema name relies on the session default, which may not be finance.procurement - a silent mistake that's hard to catch.
The column names asset_id, asset_type, and asset_name must match the spec exactly. Unity Catalog applies access controls, lineage tracking, and tagging at the column level, so the names are meaningful beyond just the schema. Once created, any GRANT statements can target specific columns for fine-grained access control.
Reference: https://learn.microsoft.com/en-us/azure/databricks/sql/language-manual/sql-ref-syntax-ddl-create- table-using

NEW QUESTION # 47
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