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Microsoft DP-750 Exam Syllabus Topics:

Section	Weight	Objectives
Deploy and manage data pipelines and workloads	30-35%	- 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 - Pipeline design and orchestration • 1. Notebook-based vs declarative pipelines • 2. Databricks Jobs and Workflows
Configure and manage Azure Databricks environments	15-20%	- Security and authentication setup • 1. Azure Key Vault integration • 2. Service principals and managed identities • 3. Access control for compute resources - Workspace and compute configuration • 1. Autoscaling, termination, and performance tuning • 2. Cluster types and configuration (job, all-purpose, serverless) • 3. Runtime, Spark, and Photon configuration

Prepare and process data	30-35%	- Data transformation and modeling 1. SQL and PySpark transformations 2. Delta Lake table design and SCD patterns 3. Joins, aggregations, and normalization/denormalization - Data quality and validation 1. Pipeline expectations and data quality constraints 2. Schema enforcement and validation rules 3. Handling nulls, duplicates, and missing data - Data ingestion 1. Streaming ingestion using Spark Structured Streaming 2. Batch ingestion using COPY INTO and CTAS 3. Auto Loader and CDC ingestion patterns
Secure and govern data using Unity Catalog	15-20%	- Data governance fundamentals 1. Data lineage and auditing 2. Catalog, schema, and table management - Access control and policies 1. Tags and policy enforcement 2. Row-level and column-level security 3. Attribute-based access control (ABAC)

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Microsoft Implementing Data Engineering Solutions Using Azure Databricks Sample Questions (Q66-Q71):

NEW QUESTION # 66

You have an Azure Databricks workspace that is enabled for Unity Catalog and contains a catalog named CatalogV. CatalogV contains a schema named Schema1 and a table named Table1.

You need to ensure that access to the data in Table1 is controlled by using attribute based access control (ABAC).

What should you apply to Table1, and how should you control access for users? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Apply to Table1:

To control user access:

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Answer:

Explanation:

Answer Area

Apply to Table1:

To control user access:

Microsoft

Explanation:

Attribute-based access control (ABAC) in Unity Catalog is implemented through row filters. A row filter is a SQL function registered on a table that evaluates the identity or group membership of the querying user and returns only the rows they're entitled to see.

The key functions are `CURRENT_USER()` (returns the logged-in user's email) and `IS_ACCOUNT_GROUP_MEMBER()` (returns true if the user belongs to a specified group). By building filter logic around these, you create access rules that are data-driven - a user in the 'EMEA' group sees EMEA rows, a user in 'APAC' sees APAC rows - without maintaining separate table-level grants per data segment.

This is what distinguishes ABAC from role-based access control: decisions are based on the user's attributes evaluated at query time, not on static grant lists. The filter is transparent to end users - they query the table normally and only receive rows the policy allows.

Reference: <https://learn.microsoft.com/en-us/azure/databricks/data-governance/unity-catalog/row-and-column-filters>

NEW QUESTION # 67

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.dropna(subset=["order_amount"])
```

Does this meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

The correct answer is A - Yes.

`df.dropna(subset=["order_amount"])` is the idiomatic PySpark way to remove rows where a specific column contains a null. It inspects only the columns listed in subset and drops any row where those columns are null.

The resulting DataFrame contains only rows where `order_amount` is not null - exactly what the requirement asks for.

The subset parameter is important: without it, dropna() would drop rows where ANY column is null, which could incorrectly exclude rows that have nulls in other columns but a valid order_amount. By specifying subset=['order_amount'], the filter is applied precisely and only to the column in question.

This method is semantically equivalent to df.filter(df.order_amount.isNotNull()) and to the SQL clause WHERE order_amount IS NOT NULL. Both are correct - dropna with a subset is arguably the more readable Pythonic approach.

Reference: <https://learn.microsoft.com/en-us/azure/databricks/pyspark/basics>

NEW QUESTION # 68

You have an Azure Databricks workspace that is enabled for Unity Catalog.

You need to profile a table to meet the following requirements:

- * The count of null values per column must be evaluated repeatedly as new records are added to the table.
- * Changes in the count of null values must be observable over the progression of the dataset.

Which type of profile should you create?

- A. inference
- **B. time series**
- C. snapshot

Answer: B

Explanation:

A time series profile repeatedly calculates data-quality metrics as a table changes and preserves those measurements over time. This makes it possible to observe whether the number of null values in each column is increasing, decreasing, or remaining stable as new records are added. A snapshot profile evaluates the table at a particular point in time and is therefore insufficient when the requirement is to analyze metric progression across multiple updates. Inference is associated with deriving information such as a schema or statistical characteristics; it is not the profile type used to maintain a historical sequence of monitoring measurements. Because the question requires repeated evaluation and the ability to observe changes throughout the dataset's progression, the time series profile satisfies both requirements.

NEW QUESTION # 69

You need to recommend a compute type for the production ingestion workloads and BI workloads. The solution must meet the environment and compute requirements.

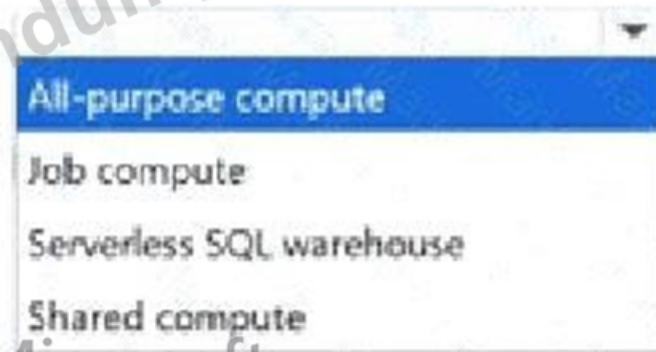
What should you recommend for each type of workload? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Production ingestion:



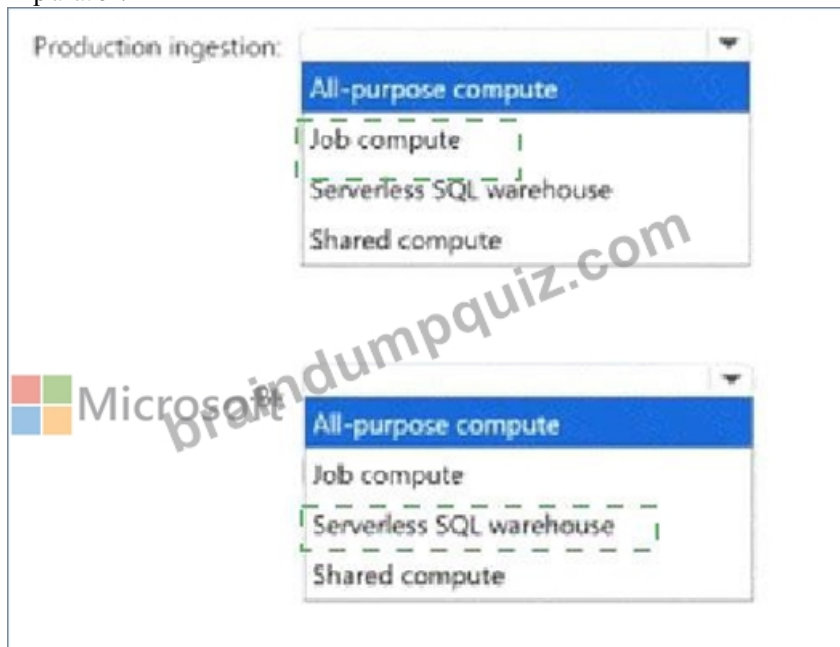
BI:



Microsoft

Answer:

Explanation:



Explanation:

Production ingestion: Job compute

BI: Serverless SQL warehouse

Job compute is designed for automated production workloads executed through Lakeflow Jobs. Its lifecycle can be tied to the job run, providing workload isolation and avoiding the cost of maintaining an interactive all-purpose cluster continuously. It is therefore appropriate for scheduled ingestion and transformation processing. A serverless SQL warehouse is designed for BI and Databricks SQL workloads. It provides rapid startup, automatic infrastructure management, scaling, and optimized SQL-query execution for dashboards and reporting tools. All-purpose compute is intended primarily for interactive notebook development and exploration, while shared compute does not provide the same job-specific isolation or SQL-serving experience. Consequently, job compute

should support production ingestion, and a serverless SQL warehouse should serve the BI workload.

NEW QUESTION # 70

You have an Azure Databricks workspace that contains the objects shown in the following table.

Name	Type
Catalog1	Catalog
Schema1	Schema
Sales1	Table
Notebook1	Notebook
Space1	AI/BI Genie space

Users often use the following words to refer to a sale: transaction, event, order, and invoice.

You need to create a knowledge store. The solution must ensure that when the users use any of the words in Space1, Genie queries the Sales1 table. Any other Genie spaces must remain unaffected.

To which object should you add the instructions?

- A. Sales1
- **B. Space1**
- C. Schema1
- D. Notebook1

Answer: B

Explanation:

The instructions must be added to Space1 because a Genie knowledge store is scoped to the individual Genie space, now called a Genie Agent. Adding synonyms and business-language instructions there teaches Space1 that "transaction," "event," "order," and "invoice" refer to sales information in Sales1. The configuration affects only that Genie space, satisfying the requirement that other spaces remain unchanged. Adding instructions to Sales1 or Schema1 would modify shared Unity Catalog metadata and could affect other consumers of those objects. Notebook1 is unrelated to the semantic instructions used by Genie when converting natural-language questions into SQL. Genie knowledge stores contain space-specific definitions, synonyms, join relationships, SQL expressions, and prompt-matching guidance without changing the underlying Unity Catalog objects. Microsoft Learn

NEW QUESTION # 71

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