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Google Cloud Certified Associate Data Practitioner 55 Real Exam Question and Answers



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Google Cloud Associate Data Practitioner Sample Questions (Q14-Q19):

NEW QUESTION # 14

Your company wants to implement a data transformation (ETL) pipeline for their BigQuery data warehouse. You need to identify a managed transformation solution that allows users to develop with SQL and JavaScript, has version control, allows for modular code, and has data quality checks. What should you do?

- A. Use Dataform to define the transformations in SQLX.
- B. Create BigQuery scheduled queries to define the transformations in SQL.
- C. Create a Cloud Composer environment, and orchestrate the transformations by using the BigQueryinsertJob operator.
- D. Use Dataproc to create an Apache Spark cluster and implement the transformations by using PySpark SQL.

Answer: A

Explanation:

Comprehensive and Detailed in Depth Explanation:

Why C is correct: Dataform is a managed data transformation service that allows you to define data pipelines using SQL and JavaScript.

It provides version control, modular code development, and data quality checks.

Why other options are incorrect: A: Cloud Composer is an orchestration tool, not a data transformation tool.

B: Scheduled queries are not suitable for complex ETL pipelines.

D: Dataproc requires setting up a Spark cluster and writing code, which is more complex than using Dataform.

NEW QUESTION # 15

You are a database administrator managing sales transaction data by region stored in a BigQuery table. You need to ensure that each sales representative can only see the transactions in their region. What should you do?

- **A. Create a row-level access policy.**
- B. Create a data masking rule.
- C. Add a policy tag in BigQuery.
- D. Grant the appropriate IAM permissions on the dataset.

Answer: A

NEW QUESTION # 16

Your company has developed a website that allows users to upload and share video files. These files are most frequently accessed and shared when they are initially uploaded. Over time, the files are accessed and shared less frequently, although some old video files may remain very popular. You need to design a storage system that is simple and cost-effective. What should you do?

- **A. Create a single-region bucket with Autoclass enabled.**
- B. Create a single-region bucket with Archive as the default storage class.
- C. Create a single-region bucket. Configure a Cloud Scheduler job that runs every 24 hours and changes the storage class based on upload date.
- D. Create a single-region bucket with custom Object Lifecycle Management policies based on upload date.

Answer: A

Explanation:

The storage system must balance cost, simplicity, and access patterns: high initial access, decreasing over time, with some files remaining popular. Google Cloud Storage offers tailored options for this:

* Option A: Custom Object Lifecycle Management (OLM) policies (e.g., transition to Nearline after 30 days, Archive after 90 days) are effective but static. They don't adapt to actual usage, so popular old files in Archive would incur high retrieval costs.

* Option B: Autoclass automatically adjusts storage classes (Standard, Nearline, Coldline, Archive) based on object access patterns, not just age. It keeps frequently accessed files in Standard (low latency /cost for access) and moves inactive ones to cheaper classes, minimizing costs while preserving simplicity. This fits the "some files remain popular" nuance.

* Option C: A Cloud Scheduler job to manually change classes daily is complex (requires scripting, monitoring), error-prone, and less cost-effective than automated solutions like Autoclass or OLM.

NEW QUESTION # 17

Your organization's website uses an on-premises MySQL as a backend database. You need to migrate the on-premises MySQL database to Google Cloud while maintaining MySQL features. You want to minimize administrative overhead and downtime. What should you do?

- A. Export the database tables to CSV files, and upload the files to Cloud Storage. Convert the MySQL schema to a Spanner schema, create a JSON manifest file, and run a Google-provided Dataflow template to load the data into Spanner.
- B. Use a Google-provided Dataflow template to replicate the MySQL database in BigQuery.
- **C. Use Database Migration Service to transfer the data to Cloud SQL for MySQL, and configure the on-premises MySQL database as the source.**
- D. Install MySQL on a Compute Engine virtual machine. Export the database files using the mysqldump command. Upload the files to Cloud Storage, and import them into the MySQL instance on Compute Engine.

Answer: C

Explanation:

Comprehensive and Detailed in Depth Explanation:

Why B is correct: Database Migration Service (DMS) is designed for migrating databases to Cloud SQL with minimal downtime and administrative overhead.

Cloud SQL for MySQL is a fully managed MySQL service, which aligns with the requirement to minimize administrative overhead.

Why other options are incorrect: A: Installing MySQL on Compute Engine requires manual management of the database instance, which increases administrative overhead.

C: BigQuery is not a direct replacement for a relational MySQL database. It's an analytical data warehouse.

D: Spanner is a globally distributed, scalable database, but it requires schema conversion and is not a direct replacement for MySQL, and it is also much more complex than cloud SQL.

NEW QUESTION # 18

Your organization uses a BigQuery table that is partitioned by ingestion time. You need to remove data that is older than one year to reduce your organization's storage costs. You want to use the most efficient approach while minimizing cost. What should you do?

- A. Require users to specify a partition filter using the alter table statement in SQL.
- B. Create a view that filters out rows that are older than one year.
- **C. Set the table partition expiration period to one year using the ALTER TABLE statement in SQL.**
- D. Create a scheduled query that periodically runs an update statement in SQL that sets the "deleted" column to "yes" for data that is more than one year old. Create a view that filters out rows that have been marked deleted.

Answer: C

Explanation:

Setting the table partition expiration period to one year using the ALTER TABLE statement is the most efficient and cost-effective approach. This automatically deletes data in partitions older than one year, reducing storage costs without requiring manual intervention or additional queries. It minimizes administrative overhead and ensures compliance with your data retention policy while optimizing storage usage in BigQuery.

Extract from Google Documentation: From "Managing Partitioned Tables in BigQuery" (<https://cloud.google.com/bigquery/docs/partitioned-tables#expiration>): "Set a partition expiration time using ALTER TABLE to automatically remove partitions older than a specified duration, reducing storage costs efficiently for ingestion-time partitioned tables."

NEW QUESTION # 19

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