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Exam Overview

The Professional Data Engineer certification exam is a 2-hour test consisting of the multiple-choice and multiple-select questions. The students can take it in the English or Japanese languages. To register for and schedule the exam, you must pay the fee of \$200. It is possible to sit for this test in an online proctored format at a remote location. You can also take it as an on-site proctored exam at a designated testing center.

Google Certified Professional Data Engineer Exam Sample Questions (Q144-Q149):

NEW QUESTION # 144

Which of these statements about BigQuery caching is true?

- A. BigQuery caches query results for 48 hours.
- B. By default, a query's results are not cached.
- C. Query results are cached even if you specify a destination table.
- D. **There is no charge for a query that retrieves its results from cache.**

Answer: D

Explanation:

When query results are retrieved from a cached results table, you are not charged for the query. BigQuery caches query results for 24 hours, not 48 hours. Query results are not cached if you specify a destination table. A query's results are always cached except under certain conditions, such as if you specify a destination table.

Reference: <https://cloud.google.com/bigquery/querying-data#query-caching>

NEW QUESTION # 145

You work for a bank. You have a labelled dataset that contains information on already granted loan application and whether these applications have been defaulted. You have been asked to train a model to predict default rates for credit applicants.

What should you do?

- A. Match loan applicants with their social profiles to enable feature engineering.
- B. **Train a linear regression to predict a credit default risk score.**
- C. Increase the size of the dataset by collecting additional data.
- D. Remove the bias from the data and collect applications that have been declined loans.

Answer: B

NEW QUESTION # 146

One of your encryption keys stored in Cloud Key Management Service (Cloud KMS) was exposed. You need to re-encrypt all of your CMEK-protected Cloud Storage data that used that key, and then delete the compromised key. You also want to reduce the risk of objects getting written without customer-managed encryption key (CMEK) protection in the future. What should you do?

- A. Create a new Cloud KMS key. Set the default CMEK key on the existing Cloud Storage bucket to the new one.
- B. **Create a new Cloud KMS key. Create a new Cloud Storage bucket. Copy all objects from the old bucket to the new one bucket while specifying the new Cloud KMS key in the copy command.**
- C. Rotate the Cloud KMS key version. Continue to use the same Cloud Storage bucket.
- D. Create a new Cloud KMS key. Create a new Cloud Storage bucket configured to use the new key as the default CMEK

key. Copy all objects from the old bucket to the new bucket without specifying a key.

Answer: B

Explanation:

To re-encrypt all of your CMEK-protected Cloud Storage data after a key has been exposed, and to ensure future writes are protected with a new key, creating a new Cloud KMS key and a new Cloud Storage bucket is the best approach. Here's why option C is the best choice:

* Re-encryption of Data:

* By creating a new Cloud Storage bucket and copying all objects from the old bucket to the new bucket while specifying the new Cloud KMS key, you ensure that all data is re-encrypted with the new key.

* This process effectively re-encrypts the data, removing any dependency on the compromised key.

* Ensuring CMEK Protection:

* Creating a new bucket and setting the new CMEK as the default ensures that all future objects written to the bucket are automatically protected with the new key.

* This reduces the risk of objects being written without CMEK protection.

* Deletion of Compromised Key:

* Once the data has been copied and re-encrypted, the old key can be safely deleted from Cloud KMS, eliminating the risk associated with the compromised key.

Steps to Implement:

* Create a New Cloud KMS Key:

* Create a new encryption key in Cloud KMS to replace the compromised key.

* Create a New Cloud Storage Bucket:

* Create a new Cloud Storage bucket and set the default CMEK to the new key.

* Copy and Re-encrypt Data:

* Use the gsutil tool to copy data from the old bucket to the new bucket while specifying the new CMEK key:

```
gsutil -o "GSUtil:gs_json_api_version=2" cp -r gs://old-bucket/* gs://new-bucket/
```

* Delete the Old Key:

* After ensuring all data is copied and re-encrypted, delete the compromised key from Cloud KMS.

Reference Links:

* Cloud KMS Documentation

* Cloud Storage Encryption

* Re-encrypting Data in Cloud Storage

NEW QUESTION # 147

You launched a new gaming app almost three years ago. You have been uploading log files from the previous day to a separate Google BigQuery table with the table name format LOGS_yyyymmdd. You have been using table wildcard functions to generate daily and monthly reports for all time ranges. Recently, you discovered that some queries that cover long date ranges are exceeding the limit of 1,000 tables and failing. How can you resolve this issue?

- A. Enable query caching so you can cache data from previous months
- B. Convert the sharded tables into a single partitioned table
- C. Create separate views to cover each month, and query from these views
- D. Convert all daily log tables into date-partitioned tables

Answer: D

Explanation:

Explanation

NEW QUESTION # 148

You have two projects where you run BigQuery jobs:

* One project runs production jobs that have strict completion time SLAs. These are high priority jobs that must have the required compute resources available when needed. These jobs generally never go below a 300 slot utilization, but occasionally spike up an additional 500 slots.

* The other project is for users to run ad-hoc analytical queries. This project generally never uses more than 200 slots at a time. You want these ad-hoc queries to be billed based on how much data users scan rather than by slot capacity. You need to ensure that both projects have the appropriate compute resources available. What should you do?

- A. Create two Enterprise Edition reservations, one for each of the projects. For the SLA project, set a baseline of 800 slots. For the ad-hoc project, enable autoscaling up to 200 slots.
- B. Create two reservations, one for each of the projects. For the SLA project, use an Enterprise Edition with a baseline of 300 slots and enable autoscaling up to 500 slots. For the ad-hoc project, configure on-demand billing.
- C. Create two Enterprise Edition reservations, one for each of the projects. For the SLA project, set a baseline of 300 slots and enable autoscaling up to 500 slots. For the ad-hoc project, set a reservation baseline of 0 slots and set the ignore_idle_slot3 flag to False.
- D. Create a single Enterprise Edition reservation for both projects. Set a baseline of 300 slots. Enable autoscaling up to 700 slots.

Answer: B

Explanation:

To ensure that both production jobs with strict SLAs and ad-hoc queries have appropriate compute resources available while adhering to cost efficiency, setting up separate reservations and billing models for each project is the best approach. Here's why option B is the best choice:

* Separate Reservations for SLA and Ad-hoc Projects:

* Creating two separate reservations allows for dedicated resource management tailored to the needs of each project.

* The production project requires guaranteed slots with the ability to scale up as needed, while the ad-hoc project benefits from on-demand billing based on data scanned.

* Enterprise Edition Reservation for SLA Project:

* Setting a baseline of 300 slots ensures that the SLA project has the minimum required resources.

* Enabling autoscaling up to 500 additional slots allows the project to handle occasional spikes in workload without compromising on SLAs.

* On-Demand Billing for Ad-hoc Project:

* Using on-demand billing for the ad-hoc project ensures cost efficiency, as users are billed based on the amount of data scanned rather than reserved slot capacity.

* This model suits the less predictable and often lower-utilization nature of ad-hoc queries.

Steps to Implement:

* Set Up Enterprise Edition Reservation for SLA Project:

* Create a reservation with a baseline of 300 slots.

* Enable autoscaling to allow up to an additional 500 slots as needed.

* Configure On-Demand Billing for Ad-hoc Project:

* Ensure that the ad-hoc project is set up to use on-demand billing, which charges based on data scanned by the queries.

* Monitor and Adjust:

* Continuously monitor the usage and performance of both projects to ensure that the configurations meet the needs and make adjustments as necessary.

Reference Links:

* BigQuery Slot Reservations

* BigQuery On-Demand Pricing

NEW QUESTION # 149

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