Google Professional-Data-Engineer Exam Assessment, Latest Professional-Data-Engineer Exam Duration

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In the such a brilliant era of IT industry in the 21st century competition is very fierce. Naturally, Google Certification Professional-Data-Engineer Exam has become a very popular exam in the IT area. More and more people register for the exam and passing the certification exam is also those ambitious IT professionals' dream.

Google Professional-Data-Engineer certification exam is a valuable credential for individuals seeking to advance their careers in data engineering and analytics. It validates an individual's knowledge and expertise in Google Cloud technologies and demonstrates their ability to design and implement data solutions that meet business requirements. By passing this certification exam, individuals can enhance their credibility and marketability in the competitive field of data engineering and analytics.

Google Professional-Data-Engineer Certification is a highly respected and sought-after credential in the field of data engineering. Google Certified Professional Data Engineer Exam certification is offered by Google Cloud and is designed for professionals who are skilled in designing and building data processing systems on the Google Cloud Platform. Professional-Data-Engineer exam tests candidates' knowledge of data engineering principles, including data collection, transformation, storage, and analysis.

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The Google Certified Professional Data Engineer Exam certification exam is divided into multiple sections, each of which covers a specific area of data engineering. Professional-Data-Engineer exam is scored on a scale of 1000, with a passing score of 700 or higher. Professional-Data-Engineer Exam is computer-based and can be taken at a testing center or online. The cost of the exam is $200, and it is valid for two years.

Google Certified Professional Data Engineer Exam Sample Questions (Q125-Q130):

NEW QUESTION # 125
Your company is planning to migrate a large on-premises data warehouse to BigQuery. The data is currently stored in a proprietary, vendor-specific format. You need to perform a batch migration of this data to BigQuery. What should you do?

- A. Export the data to CSV files, upload the files to Cloud Storage, then load the files into BigQuery.
- B. Use the bq command-line tool to load the data directly from the on-premises data warehouse.
- C. Use the BigQuery Data Transfer Service.
- D. Use Datastream to replicate the data in real time.

Answer: A

Explanation:
Comprehensive and Detailed Explanation:
The challenge here is dealing with a "proprietary, vendor-specific format" for a one-time batch migration.
Option C is the correct answer because it represents the most universal and reliable pattern for migration from any source system. By first exporting the data into a standard, interoperable format like CSV (or preferably, a self-describing format like Avro or Parquet), you decouple the process from the proprietary source. These standard files can then be easily uploaded to Cloud Storage (the recommended staging area for BigQuery loads) and loaded into BigQuery in a highly performant and parallelized manner.
Option A is incorrect because the bq command-line tool cannot connect directly to an on-premises data warehouse to pull data. It loads data from files or streams.
Option B is incorrect because the BigQuery Data Transfer Service (DTS) has connectors for specific, common data sources (like Teradata, Redshift, S3). It is unlikely to have a connector for a generic
"proprietary, vendor-specific format."
Option D is incorrect because Datastream is a Change Data Capture (CDC) service designed for real-time replication of databases, not for a large-scale, one-time batch migration of a data warehouse.
Reference (Google Cloud Documentation Concepts):Google Cloud's "Data warehouse migration to BigQuery" guide outlines several migration strategies. For batch data transfer, the recommended path is Extract, Transfer, Load (ETL). This involves extracting data from the source into files (in formats like CSV, Avro, Parquet), transferring those files to Cloud Storage, and then loading them into BigQuery. This approach is recommended for its reliability and compatibility with any source system

NEW QUESTION # 126
You are designing storage for two relational tables that are part of a 10-TB database on Google Cloud. You want to support transactions that scale horizontally. You also want to optimize data for range queries on nonkey columns. What should you do?

- A. Use Cloud Spanner for storage. Use Cloud Dataflow to transform data to support query patterns.
- B. Use Cloud Spanner for storage. Add secondary indexes to support query patterns.
- C. Use Cloud SQL for storage. Add secondary indexes to support query patterns.
- D. Use Cloud SQL for storage. Use Cloud Dataflow to transform data to support query patterns.

Answer: A

NEW QUESTION # 127
Which row keys are likely to cause a disproportionate number of reads and/or writes on a particular node in a Bigtable cluster (select 2 answers)?

- A. A non-sequential numeric ID
- B. A sequential numeric ID
- C. A timestamp followed by a stock symbol
- D. A stock symbol followed by a timestamp

Answer: B,C

Explanation:
...using a timestamp as the first element of a row key can cause a variety of problems. In brief, when a row key for a time series includes a timestamp, all of your writes will target a single node; fill that node; and then move onto the next node in the cluster, resulting in hotspotting. Suppose your system assigns a numeric ID to each of your application's users. You might be tempted to use the user's numeric ID as the row key for your table. However, since new users are more likely to be active users, this approach is likely to push most of your traffic to a small number of nodes. [https://cloud.google.com/bigtable/docs/schema- design] Reference: https://cloud.google.com/bigtable/docs/schema-design-time- series#ensure_that_your_row_key_avoids_hotspotting

NEW QUESTION # 128
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 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.
- 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 800 slots. For the ad-hoc project, enable autoscaling up to 200 slots.
- 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 # 129
You need to create a data pipeline that copies time-series transaction data so that it can be queried from within BigQuery by your data science team for analysis. Every hour, thousands of transactions are updated with a new status. The size of the intitial dataset is 1.5 PB, and it will grow by 3 TB per day. The data is heavily structured, and your data science team will build machine learning models based on this dat
a. You want to maximize performance and usability for your data science team. Which two strategies should you adopt? Choose 2 answers.

- A. Preserve the structure of the data as much as possible.
- B. Develop a data pipeline where status updates are appended to BigQuery instead of updated.
- C. Denormalize the data as must as possible.
- D. Use BigQuery UPDATE to further reduce the size of the dataset.
- E. Copy a daily snapshot of transaction data to Cloud Storage and store it as an Avro file. Use BigQuery's support for external data sources to query.

Answer: C,E

NEW QUESTION # 130
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