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We have considered that your time may be very tight, and you can only use some fragmented time to learn. Therefore, it is really important to be able to read our Professional-Data-Engineer study materials anytime, anywhere. So we have developed our Professional-Data-Engineer exam questions to three different versions: the PDF, Software and APP online. They have covered all conditions that you will be in to study on our Professional-Data-Engineer learning guide. For example, the time you want to study on phone, computer, laptop, paper and so on.

Ensure Solution Quality

- **Ensure Efficiency & Scalability:** The potential candidates will be required to demonstrate their ability to build and run test suits as well as monitor pipeline, including Stackdriver. It also focuses on their skills related to assessing, improving, and troubleshooting data process infrastructure and data representations. This area will also require that the test takers demonstrate the capacity to resize and autoscale resources;
- **Ensure Portability & Flexibility:** The considerations for this domain include the design for application and data portability, including data residency prerequisites and Multiple-Cloud. It also coves data staging, discovery, and cataloging, as well as mapping to future and current business prerequisites.
- **Design for Compliance & Security:** The consideration for this topic includes identity & access management such as Cloud IAM. You should also know about data security (including key management and encryption) and privacy assurance (such as Data Loss Prevention API). This part also covers the skills needed in legal compliance, including Health Insurance Portability & Accountability Act, FedRAMP, Children's Online Privacy Protection Act, and General Data Protection Regulation;
- **Ensure Fidelity & Reliability:** The applicants should be able to carry out data preparation & quality control (such as Cloud

Dataprep), verify and monitor, as well as plan, execute, and stress test data recovery (including rerunning failed jobs, fault tolerance, and retrospective re-analysis performance). Besides that, they should be able to choose between idempotent ACID and eventual consistent prerequisites;

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Our Professional-Data-Engineer exam materials are the product of this era, which conforms to the development trend of the whole era. It seems that we have been in a state of study and examination since we can remember, and we have experienced countless tests. In the process of job hunting, we are always asked what are the achievements and what certificates have we obtained? Therefore, we get the test Professional-Data-Engineer Certification and obtain the qualification certificate to become a quantitative standard, and our Professional-Data-Engineer learning guide can help you to prove yourself the fastest in a very short period of time.

To prepare for the exam, candidates can take advantage of a range of resources, including Google Cloud's official documentation, online courses, and practice exams. They can also join study groups and attend events and webinars to connect with other professionals and learn from their experiences.

Preparing for the exam requires a combination of hands-on experience with Google Cloud Platform, as well as studying relevant documentation and training materials. Google offers a variety of resources for exam preparation, including online courses, hands-on labs, and practice exams.

Google Certified Professional Data Engineer Exam Sample Questions (Q365-Q370):

NEW QUESTION # 365
Your company produces 20,000 files every hour. Each data file is formatted as a comma separated values (CSV) file that is less than 4 KB. All files must be ingested on Google Cloud Platform before they can be processed. Your company site has a 200 ms latency to Google Cloud, and your Internet connection bandwidth is limited as 50 Mbps. You currently deploy a secure FTP (SFTP) server on a virtual machine in Google Compute Engine as the data ingestion point. A local SFTP client runs on a dedicated machine to transmit the CSV files as is. The goal is to make reports with data from the previous day available to the executives by 10:00 a.m. each day. This design is barely able to keep up with the current volume, even though the bandwidth utilization is rather low.
You are told that due to seasonality, your company expects the number of files to double for the next three months. Which two actions should you take? (Choose two.)

- A. Introduce data compression for each file to increase the rate file of file transfer.
- B. Assemble 1,000 files into a tape archive (TAR) file. Transmit the TAR files instead, and disassemble the CSV files in the cloud upon receiving them.
- C. Redesign the data ingestion process to use gsutil tool to send the CSV files to a storage bucket in parallel.
- D. Create an S3-compatible storage endpoint in your network, and use Google Cloud Storage Transfer Service to transfer on-premises data to the designated storage bucket.
- E. Contact your internet service provider (ISP) to increase your maximum bandwidth to at least 100 Mbps.

Answer: C,D

Explanation:
Explanation/Reference:

NEW QUESTION # 366
You are loading CSV files from Cloud Storage to BigQuery. The files have known data quality issues, including mismatched data types, such as STRINGS and INT64s in the same column, and inconsistent formatting of values such as phone numbers or addresses. You need to create the data pipeline to maintain data quality and perform the required cleansing and transformation. What should you do?

- A. Load the CSV files into a staging table with the desired schema, perform the transformations with SQL. and then write the

results to the final destination table.
- B. Use Data Fusion to convert the CSV files lo a self-describing data formal, such as AVRO. before loading the data to BigOuery.
- C. Create a table with the desired schema, toad the CSV files into the table, and perform the transformations in place using SQL.
- D. Use Data Fusion to transform the data before loading it into BigQuery.

Answer: D

Explanation:
Data Fusion's advantages:
Visual interface: Offers a user-friendly interface for designing data pipelines without extensive coding, making it accessible to a wider range of users.
Built-in transformations: Includes a wide range of pre-built transformations to handle common data quality issues, such as:
Data type conversions
Data cleansing (e.g., removing invalid characters, correcting formatting) Data validation (e.g., checking for missing values, enforcing constraints) Data enrichment (e.g., adding derived fields, joining with other datasets) Custom transformations: Allows for custom transformations using SQL or Java code for more complex cleaning tasks.
Scalability: Can handle large datasets efficiently, making it suitable for processing CSV files with potential data quality issues.
Integration with BigQuery: Integrates seamlessly with BigQuery, allowing for direct loading of transformed data.

NEW QUESTION # 367
Which of the following is not true about Dataflow pipelines?

- A. Pipelines represent a directed graph of steps
- B. Pipelines can share data between instances
- C. Pipelines are a set of operations
- D. Pipelines represent a data processing job

Answer: B

Explanation:
The data and transforms in a pipeline are unique to, and owned by, that pipeline. While your program can create multiple pipelines, pipelines cannot share data or transforms

NEW QUESTION # 368
You are migrating your on-premises data warehouse to BigQuery. As part of the migration, you want to facilitate cross-team collaboration to get the most value out of the organization's dat a. You need to design an architecture that would allow teams within the organization to securely publish, discover, and subscribe to read-only data in a self-service manner. You need to minimize costs while also maximizing data freshness What should you do?

- A. Use Analytics Hub to facilitate data sharing.
- B. Create a new dataset for sharing in each individual team's project. Grant the subscribing team the bigquery. dataViewer role on the dataset.
- C. Create authorized datasets to publish shared data in the subscribing team's project.
- D. Use BigQuery Data Transfer Service to copy datasets to a centralized BigQuery project for sharing.

Answer: D

Explanation:
To provide a cost-effective storage and processing solution that allows data scientists to explore data similarly to using the on-premises HDFS cluster with SQL on the Hive query engine, deploying a Dataproc cluster is the best choice. Here's why:
Compatibility with Hive:
Dataproc is a fully managed Apache Spark and Hadoop service that provides native support for Hive, making it easy for data scientists to run SQL queries on the data as they would in an on-premises Hadoop environment.
This ensures that the transition to Google Cloud is smooth, with minimal changes required in the workflow.
Cost-Effective Storage:
Storing the ORC files in Cloud Storage is cost-effective and scalable, providing a reliable and durable storage solution that integrates seamlessly with Dataproc.

Cloud Storage allows you to store large datasets at a lower cost compared to other storage options.

Hive Integration:

Dataproc supports running Hive directly, which is essential for data scientists familiar with SQL on the Hive query engine.

This setup enables the use of existing Hive queries and scripts without significant modifications.

Steps to Implement:

Copy ORC Files to Cloud Storage:

Transfer the ORC files from the on-premises HDFS cluster to Cloud Storage, ensuring they are organized in a similar directory structure.

Deploy Dataproc Cluster:

Set up a Dataproc cluster configured to run Hive. Ensure that the cluster has access to the ORC files stored in Cloud Storage.

Configure Hive:

Configure Hive on Dataproc to read from the ORC files in Cloud Storage. This can be done by setting up external tables in Hive that point to the Cloud Storage location.

Provide Access to Data Scientists:

Grant the data scientist team access to the Dataproc cluster and the necessary permissions to interact with the Hive tables.

Reference:

Dataproc Documentation

Hive on Dataproc

Google Cloud Storage Documentation

NEW QUESTION # 369

Why do you need to split a machine learning dataset into training data and test data?

- A. To make sure your model is generalized for more than just the training data
- B. So you can try two different sets of features
- C. So you can use one dataset for a wide model and one for a deep model
- D. To allow you to create unit tests in your code

Answer: A

Explanation:

The flaw with evaluating a predictive model on training data is that it does not inform you on how well the model has generalized to new unseen data. A model that is selected for its accuracy on the training dataset rather than its accuracy on an unseen test dataset is very likely to have lower accuracy on an unseen test dataset. The reason is that the model is not as generalized. It has specialized to the structure in the training dataset. This is called overfitting.

NEW QUESTION # 370

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