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Google Professional-Data-Engineer Certification Exam is a highly recognized certification exam for professionals who want to validate their skills and expertise in data engineering. Professional-Data-Engineer exam is designed to test the candidates' knowledge of Google Cloud Platform (GCP) and its data engineering services. It requires a deep understanding of various data tooling, technologies, and services used to build and maintain data pipelines, data processing systems, and machine learning models.

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The Google Professional-Data-Engineer Exam is designed for data engineers, data analysts, and data scientists who work with data processing systems and data analytics solutions on the Google Cloud Platform. Google Certified Professional Data Engineer Exam certification demonstrates their ability to design, build, and manage scalable, reliable, and cost-effective data solutions on Google Cloud.

Google Certified Professional Data Engineer Exam Sample Questions (Q169-Q174):

NEW QUESTION # 169

You are designing storage for very large text files for a data pipeline on Google Cloud. You want to support ANSI SQL queries. You also want to support compression and parallel load from the input locations using Google recommended practices. What should you do?

- A. Compress text files to gzip using the Grid Computing Tools. Use BigQuery for storage and query.
- B. Compress text files to gzip using the Grid Computing Tools. Use Cloud Storage, and then import into Cloud Bigtable for

query.

- C. Transform text files to compressed Avro using Cloud Dataflow. Use Cloud Storage and BigQuery permanent linked tables for query.
- D. Transform text files to compressed Avro using Cloud Dataflow. Use BigQuery for storage and query.

Answer: B

NEW QUESTION # 170

To run a TensorFlow training job on your own computer using Cloud Machine Learning Engine, what would your command start with?

- A. gcloud ml-engine local train
- B. gcloud ml-engine jobs submit training
- C. You can't run a TensorFlow program on your own computer using Cloud ML Engine .
- D. gcloud ml-engine jobs submit training local

Answer: A

Explanation:

gcloud ml-engine local train - run a Cloud ML Engine training job locally

This command runs the specified module in an environment similar to that of a live Cloud ML Engine Training Job.

This is especially useful in the case of testing distributed models, as it allows you to validate that you are properly interacting with the Cloud ML Engine cluster configuration.

NEW QUESTION # 171

An external customer provides you with a daily dump of data from their database. The data flows into Google Cloud Storage GCS as comma-separated values (CSV) files. You want to analyze this data in Google BigQuery, but the data could have rows that are formatted incorrectly or corrupted. How should you build this pipeline?

- A. Use federated data sources, and check data in the SQL query.
- B. Run a Google Cloud Dataflow batch pipeline to import the data into BigQuery, and push errors to another dead-letter table for analysis.
- C. Enable BigQuery monitoring in Google Stackdriver and create an alert.
- D. Import the data into BigQuery using the gcloud CLI and set max_bad_records to 0.

Answer: B

Explanation:

Topic 1, Flowlogistic Case Study

Company Overview

Flowlogistic is a leading logistics and supply chain provider. They help businesses throughout the world manage their resources and transport them to their final destination. The company has grown rapidly, expanding their offerings to include rail, truck, aircraft, and oceanic shipping.

Company Background

The company started as a regional trucking company, and then expanded into other logistics market. Because they have not updated their infrastructure, managing and tracking orders and shipments has become a bottleneck. To improve operations, Flowlogistic developed proprietary technology for tracking shipments in real time at the parcel level. However, they are unable to deploy it because their technology stack, based on Apache Kafka, cannot support the processing volume. In addition, Flowlogistic wants to further analyze their orders and shipments to determine how best to deploy their resources.

Solution Concept

Flowlogistic wants to implement two concepts using the cloud:

- * Use their proprietary technology in a real-time inventory-tracking system that indicates the location of their loads
- * Perform analytics on all their orders and shipment logs, which contain both structured and unstructured data, to determine how best to deploy resources, which markets to expand into. They also want to use predictive analytics to learn earlier when a shipment will be delayed.

Existing Technical Environment

Flowlogistic architecture resides in a single data center:

- * Databases

- * 8 physical servers in 2 clusters

- * SQL Server - user data, inventory, static data
- * 3 physical servers
- * Cassandra - metadata, tracking messages
- 10 Kafka servers - tracking message aggregation and batch insert
- * Application servers - customer front end, middleware for order/customers
- * 60 virtual machines across 20 physical servers
- * Tomcat - Java services
- * Nginx - static content
- * Batch servers

Storage appliances

- * iSCSI for virtual machine (VM) hosts
- * Fibre Channel storage area network (FC SAN) - SQL server storage
- * Network-attached storage (NAS) image storage, logs, backups
- * Apache Hadoop /Spark servers

Core Data Lake

- * Data analysis workloads
- * 20 miscellaneous servers
- * Jenkins, monitoring, bastion hosts,

Business Requirements

- * Build a reliable and reproducible environment with scaled panty of production.
- * Aggregate data in a centralized Data Lake for analysis
- * Use historical data to perform predictive analytics on future shipments
- * Accurately track every shipment worldwide using proprietary technology
- * Improve business agility and speed of innovation through rapid provisioning of new resources
- * Analyze and optimize architecture for performance in the cloud
- * Migrate fully to the cloud if all other requirements are met

Technical Requirements

- * Handle both streaming and batch data
- * Migrate existing Hadoop workloads
- * Ensure architecture is scalable and elastic to meet the changing demands of the company.
- * Use managed services whenever possible
- * Encrypt data flight and at rest
- * Connect a VPN between the production data center and cloud environment SEO Statement We have grown so quickly that our inability to upgrade our infrastructure is really hampering further growth and efficiency. We are efficient at moving shipments around the world, but we are inefficient at moving data around.

We need to organize our information so we can more easily understand where our customers are and what they are shipping.

CTO Statement

IT has never been a priority for us, so as our data has grown, we have not invested enough in our technology. I have a good staff to manage IT, but they are so busy managing our infrastructure that I cannot get them to do the things that really matter, such as organizing our data, building the analytics, and figuring out how to implement the CFO's tracking technology.

CFO Statement

Part of our competitive advantage is that we penalize ourselves for late shipments and deliveries. Knowing where out shipments are at all times has a direct correlation to our bottom line and profitability. Additionally, I don't want to commit capital to building out a server environment.

NEW QUESTION # 172

You receive data files in CSV format monthly from a third party. You need to cleanse this data, but every third month the schema of the files changes. Your requirements for implementing these transformations include:

- * Executing the transformations on a schedule
- * Enabling non-developer analysts to modify transformations
- * Providing a graphical tool for designing transformations

What should you do?

- A. Use Cloud Dataprep to build and maintain the transformation recipes, and execute them on a scheduled basis
- B. Load each month's CSV data into BigQuery, and write a SQL query to transform the data to a standard schema. Merge the transformed tables together with a SQL query
- C. Use Apache Spark on Cloud Dataproc to infer the schema of the CSV file before creating a Dataframe. Then implement the transformations in Spark SQL before writing the data out to Cloud Storage and loading into BigQuery
- D. Help the analysts write a Cloud Dataflow pipeline in Python to perform the transformation. The Python code should be

stored in a revision control system and modified as the incoming data's schema changes

Answer: C

NEW QUESTION # 173

You have a job that you want to cancel. It is a streaming pipeline, and you want to ensure that any data that is in-flight is processed and written to the output. Which of the following commands can you use on the Dataflow monitoring console to stop the pipeline job?

- A. Finish
- B. Cancel
- C. Stop
- D. Drain

Answer: D

Explanation:

Using the Drain option to stop your job tells the Dataflow service to finish your job in its current state. Your job will immediately stop ingesting new data from input sources, but the Dataflow service will preserve any existing resources (such as worker instances) to finish processing and writing any buffered data in your pipeline.

Reference: <https://cloud.google.com/dataflow/pipelines/stopping-a-pipeline>

NEW QUESTION # 174

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