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Google Professional-Data-Engineer Certification Exam is an exam offered by Google Cloud that provides individuals with the opportunity to demonstrate their proficiency in designing and building data processing systems on Google Cloud Platform. Google Certified Professional Data Engineer Exam certification is intended for individuals who have experience in data processing and have worked with Google Cloud Platform technologies. Google Certified Professional Data Engineer Exam certification exam measures a candidate's ability to design, build, operationalize, secure, and monitor data processing systems.

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Exam Details

The Google Professional Data Engineer certification exam has the duration of 2 hours. The qualifying test is made up of multiple-select and multiple-choice questions. The exam is available either in Japanese or English. To register for it, you are required to go through the official webpage and pay the fee of \$200 plus applicable taxes. While completing the registration process, the potential individuals can choose the preferred method of exam delivery. It can be taken in person at the nearest testing center or online from a remote location.

The Google Professional Data Engineer certification is designed to equip the individuals with the required knowledge and skills to enable data-driven decision-making through collecting, transforming, and publishing data. To earn this certificate, the candidates will be required to pass a single test measuring their skills in leveraging, deploying, and continuously training pre-existing machine learning models. The qualifying exam also evaluates the ability of the applicants to design, build, operationalize, monitor, and secure data processing systems.

Google Certified Professional Data Engineer Exam Sample Questions (Q364-

Q369):

NEW QUESTION # 364

Case Study 1 - Flowlogistic

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/customs

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

* 10 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 parity 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 our 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.

Flowlogistic's CEO wants to gain rapid insight into their customer base so his sales team can be better informed in the field. This team is not very technical, so they've purchased a visualization tool to simplify the creation of BigQuery reports. However, they've been overwhelmed by all the data in the table, and are spending a lot of money on queries trying to find the data they need. You want to solve their problem in the most cost-effective way. What should you do?

- A. Export the data into a Google Sheet for virtualization.
- B. Create identity and access management (IAM) roles on the appropriate columns, so only they appear in a query.
- C. Create an additional table with only the necessary columns.
- **D. Create a view on the table to present to the virtualization tool.**

Answer: D

NEW QUESTION # 365

You decided to use Cloud Datastore to ingest vehicle telemetry data in real time. You want to build a storage system that will account for the long-term data growth, while keeping the costs low. You also want to create snapshots of the data periodically, so that you can make a point-in-time (PIT) recovery, or clone a copy of the data for Cloud Datastore in a different environment. You want to archive these snapshots for a long time. Which two methods can accomplish this? Choose 2 answers.

- A. Use managed export, and store the data in a Cloud Storage bucket using Nearline or Coldline class.
- **B. Write an application that uses Cloud Datastore client libraries to read all the entities. Format the exported data into a JSON file. Apply compression before storing the data in Cloud Source Repositories.**
- C. Write an application that uses Cloud Datastore client libraries to read all the entities. Treat each entity as a BigQuery table row via BigQuery streaming insert. Assign an export timestamp for each export, and attach it as an extra column for each row. Make sure that the BigQuery table is partitioned using the export timestamp column.
- **D. Use managed export, and then import the data into a BigQuery table created just for that export, and delete temporary export files.**
- E. Use managed export, and then import to Cloud Datastore in a separate project under a unique namespace reserved for that export.

Answer: B,D

NEW QUESTION # 366

Which is the preferred method to use to avoid hotspotting in time series data in Bigtable?

- **A. Field promotion**
- B. Randomization
- C. Salting
- D. Hashing

Answer: A

Explanation:

By default, prefer field promotion. Field promotion avoids hotspotting in almost all cases, and it tends to make it easier to design a row key that facilitates queries.

NEW QUESTION # 367

You have a BigQuery dataset named "customers". All tables will be tagged by using a Data Catalog tag template named "gdpr". The template contains one mandatory field, "has sensitive data", with a boolean value. All employees must be able to do a simple search and find tables in the dataset that have either true or false in the "has sensitive data" field. However, only the Human Resources (HR)

group should be able to see the data inside the tables for which "has-sensitive-data" is true. You give the all employees group the bigquery.metadataViewer and bigquery.connectionUser roles on the dataset. You want to minimize configuration overhead. What should you do next?

- A. Create the "gdpr" tag template with public visibility. Assign the bigquery.dataViewer role to the HR group on the tables that contain sensitive data.
- B. Create the "gdpr" tag template with private visibility. Assign the bigquery.dataViewer role to the HR group on the tables that contain sensitive data.
- C. Create the "gdpr" tag template with private visibility. Assign the datacatalog.tagTemplateViewer role on this tag to the all employees group, and assign the bigquery.dataViewer role to the HR group on the tables that contain sensitive data.
- **D. Create the "gdpr" tag template with public visibility. Assign the datacatalog.tagTemplateViewer role on this tag to the all employees group, and assign the bigquery.dataViewer role to the HR group on the tables that contain sensitive data.**

Answer: D

Explanation:

To ensure that all employees can search and find tables with GDPR tags while restricting data access to sensitive tables only to the HR group, follow these steps:

Data Catalog Tag Template:

Use Data Catalog to create a tag template named "gdpr" with a boolean field "has sensitive data". Set the visibility to public so all employees can see the tags.

Roles and Permissions:

Assign the datacatalog.tagTemplateViewer role to the all employees group. This role allows users to view the tags and search for tables based on the "has sensitive data" field.

Assign the bigquery.dataViewer role to the HR group specifically on tables that contain sensitive data. This ensures only HR can access the actual data in these tables.

Steps to Implement:

Create the GDPR Tag Template:

Define the tag template in Data Catalog with the necessary fields and set visibility to public.

Assign Roles:

Grant the datacatalog.tagTemplateViewer role to the all employees group for visibility into the tags.

Grant the bigquery.dataViewer role to the HR group on tables marked as having sensitive data.

Reference:

Data Catalog Documentation

Managing Access Control in BigQuery

IAM Roles in Data Catalog

NEW QUESTION # 368

Your new customer has requested daily reports that show their net consumption of Google Cloud compute resources and who used the resources. You need to quickly and efficiently generate these daily reports. What should you do?

- A. Export Cloud Logging data to Cloud Storage in CSV format. Cleanse the data using Dataprep, filtering by project, resource, and user.
- **B. Filter data in Cloud Logging by project, resource, and user; then export the data in CSV format.**
- C. Do daily exports of Cloud Logging data to BigQuery. Create views filtering by project, log type, resource, and user.
- D. Filter data in Cloud Logging by project, log type, resource, and user, then import the data into BigQuery.

Answer: B

Explanation:

<https://cloud.google.com/logging/docs/view/logs-explorer-interface?cloudshell=true>

NEW QUESTION # 369

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