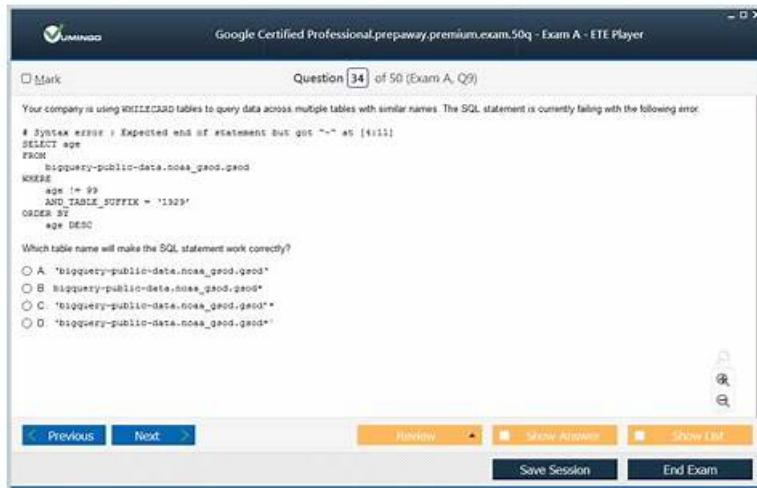


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Google Certified Professional Data Engineer Exam Sample Questions (Q202-Q207):

NEW QUESTION # 202

You need to store and analyze social media postings in Google BigQuery at a rate of 10,000 messages per minute in near real-time. Initially, design the application to use streaming inserts for individual postings. Your application also performs data aggregations right after the streaming inserts. You discover that the queries after streaming inserts do not exhibit strong consistency, and reports from the queries might miss in-flight data. How can you adjust your application design?

- A. Re-write the application to load accumulated data every 2 minutes.
- B. Estimate the average latency for data availability after streaming inserts, and always run queries after waiting twice as long.

- C. Load the original message to Google Cloud SQL, and export the table every hour to BigQuery via streaming inserts.
- D. Convert the streaming insert code to batch load for individual messages.

Answer: B

Explanation:

The data is first comes to buffer and then written to Storage. If we are running queries in buffer we will face above mentioned issues. If we wait for the bigquery to write the data to storage then we won't face the issue.

So We need to wait till it's written to storage

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/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

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 at 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.

NEW QUESTION # 203

When a Cloud Bigtable node fails, _____ is lost.

- A. the time dimension
- B. no data
- C. all data
- D. the last transaction

Answer: B

Explanation:

A Cloud Bigtable table is sharded into blocks of contiguous rows, called tablets, to help balance the workload of queries. Tablets are stored on Colossus, Google's file system, in SSTable format. Each tablet is associated with a specific Cloud Bigtable node. Data is never stored in Cloud Bigtable nodes themselves; each node has pointers to a set of tablets that are stored on Colossus. As a result:

Rebalancing tablets from one node to another is very fast, because the actual data is not copied. Cloud Bigtable simply updates the pointers for each node.

Recovery from the failure of a Cloud Bigtable node is very fast, because only metadata needs to be migrated to the replacement node.

When a Cloud Bigtable node fails, no data is lost

Reference: <https://cloud.google.com/bigtable/docs/overview>

NEW QUESTION # 204

A shipping company has live package-tracking data that is sent to an Apache Kafka stream in real time. This is then loaded into BigQuery. Analysts in your company want to query the tracking data in BigQuery to analyze geospatial trends in the lifecycle of a package. The table was originally created with ingest-date partitioning.

Over time, the query processing time has increased. You need to implement a change that would improve query performance in BigQuery. What should you do?

- A. Tier older data onto Google Cloud Storage files and create a BigQuery table using GCS as an external data source.
- B. Implement clustering in BigQuery on the package-tracking ID column.
- C. Re-create the table using data partitioning on the package delivery date.
- D. Implement clustering in BigQuery on the ingest date column.

Answer: B

NEW QUESTION # 205

You are deploying a new storage system for your mobile application, which is a media streaming service.

You decide the best fit is Google Cloud Datastore. You have entities with multiple properties, some of which can take on multiple values. For example, in the entity 'Movie' the property 'actors' and the property 'tags' have multiple values but the property 'date released' does not. A typical query would ask for all movies with actor=<actormame> ordered by date_released or all movies with tag=Comedy ordered by date_released. How should you avoid a combinatorial explosion in the number of indexes?

- A. Manually configure the index in your index config as follows:

- B. Set the following in your entity options: exclude_from_indexes = 'actors, tags'
- C. Set the following in your entity options: exclude_from_indexes = 'date_published'
- D. Manually configure the index in your index config as follows:

□

Answer: D

NEW QUESTION # 206

Which Java SDK class can you use to run your Dataflow programs locally?

- A. MachineRunner
- B. DirectPipelineRunner
- C. LocalRunner
- D. LocalPipelineRunner

Answer: B

Explanation:

DirectPipelineRunner allows you to execute operations in the pipeline directly, without any optimization.

Useful for small local execution and tests

Reference: <https://cloud.google.com/dataflow/java-sdk/JavaDoc/com/google/cloud/dataflow/sdk/runners/DirectPipelineRunner>

NEW QUESTION # 207

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