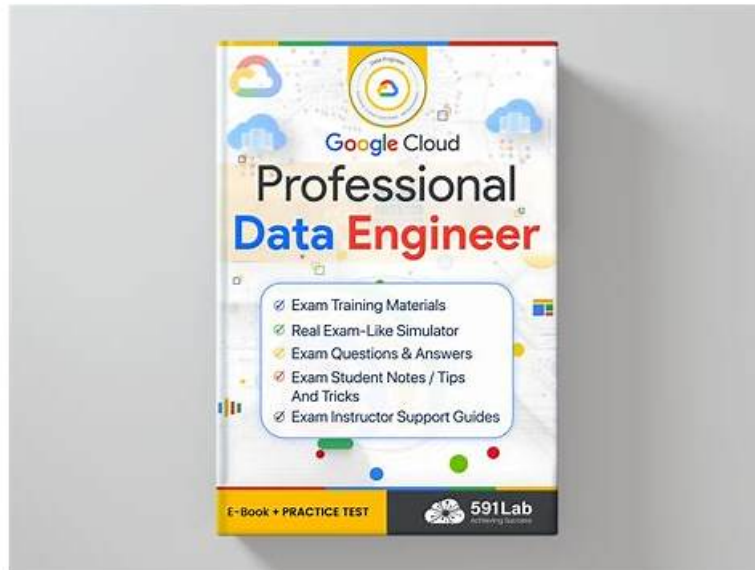


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Build & Operationalize Data Processing Systems

- **Build & Operationalize Pipeline:** This module requires that the learners demonstrate competence in data cleansing, transformation, batch & streaming, data import & acquisition, as well as integration with the new data sources;

- **Build & Operationalize Storage Systems:** This part will require the students' skills and competence in the effective usage of managed services, including Cloud Spanner, Cloud Bigtable, BigQuery, Cloud SQL, Cloud Memorystore, Cloud Datastore, and Cloud Storage. It also covers their skills in managing the data lifecycle and storage performance and costs;
- **Build & Operationalize Processing Infrastructure:** The considerations for this subject area include provisioning resources, adjusting pipeline, monitoring pipeline, and testing & quality control.

Google Certified Professional Data Engineer Exam Sample Questions (Q86-Q91):

NEW QUESTION # 86

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. Option C
- B. Option D
- C. Option B.
- **D. Option A**

Answer: D

NEW QUESTION # 87

Case Study 2 - MJTelco

Company Overview

MJTelco is a startup that plans to build networks in rapidly growing, underserved markets around the world.

The company has patents for innovative optical communications hardware. Based on these patents, they can create many reliable, high-speed backbone links with inexpensive hardware.

Company Background

Founded by experienced telecom executives, MJTelco uses technologies originally developed to overcome communications challenges in space. Fundamental to their operation, they need to create a distributed data infrastructure that drives real-time analysis and incorporates machine learning to continuously optimize their topologies. Because their hardware is inexpensive, they plan to overdeploy the network allowing them to account for the impact of dynamic regional politics on location availability and cost. Their management and operations teams are situated all around the globe creating many-to-many relationship between data consumers and provides in their system. After careful consideration, they decided public cloud is the perfect environment to support their needs.

Solution Concept

MJTelco is running a successful proof-of-concept (PoC) project in its labs. They have two primary needs:

- * Scale and harden their PoC to support significantly more data flows generated when they ramp to more than 50,000 installations.
- * Refine their machine-learning cycles to verify and improve the dynamic models they use to control topology definition.

MJTelco will also use three separate operating environments - development/test, staging, and production - to meet the needs of running experiments, deploying new features, and serving production customers.

Business Requirements

- * Scale up their production environment with minimal cost, instantiating resources when and where needed in an unpredictable, distributed telecom user community.
- * Ensure security of their proprietary data to protect their leading-edge machine learning and analysis.
- * Provide reliable and timely access to data for analysis from distributed research workers
- * Maintain isolated environments that support rapid iteration of their machine-learning models without affecting their customers.

Technical Requirements

- * Ensure secure and efficient transport and storage of telemetry data
- * Rapidly scale instances to support between 10,000 and 100,000 data providers with multiple flows each.
- * Allow analysis and presentation against data tables tracking up to 2 years of data storing approximately 100m records/day
- * Support rapid iteration of monitoring infrastructure focused on awareness of data pipeline problems both in telemetry flows and in production learning cycles.

CEO Statement

Our business model relies on our patents, analytics and dynamic machine learning. Our inexpensive hardware is organized to be highly reliable, which gives us cost advantages. We need to quickly stabilize our large distributed data pipelines to meet our reliability

and capacity commitments.

CTO Statement

Our public cloud services must operate as advertised. We need resources that scale and keep our data secure. We also need environments in which our data scientists can carefully study and quickly adapt our models. Because we rely on automation to process our data, we also need our development and test environments to work as we iterate.

CFO Statement

The project is too large for us to maintain the hardware and software required for the data and analysis.

Also, we cannot afford to staff an operations team to monitor so many data feeds, so we will rely on automation and infrastructure. Google Cloud's machine learning will allow our quantitative researchers to work on our high-value problems instead of problems with our data pipelines.

MJTelco's Google Cloud Dataflow pipeline is now ready to start receiving data from the 50,000 installations. You want to allow Cloud Dataflow to scale its compute power up as required. Which Cloud Dataflow pipeline configuration setting should you update?

- A. The number of workers
- B. The zone
- C. The disk size per worker
- **D. The maximum number of workers**

Answer: D

NEW QUESTION # 88

What is the recommended action to do in order to switch between SSD and HDD storage for your Google Cloud Bigtable instance?

- **A. export the data from the existing instance and import the data into a new instance**
- B. the selection is final and you must resume using the same storage type
- C. run parallel instances where one is HDD and the other is SDD
- D. create a third instance and sync the data from the two storage types via batch jobs

Answer: A

Explanation:

When you create a Cloud Bigtable instance and cluster, your choice of SSD or HDD storage for the cluster is permanent. You cannot use the Google Cloud Platform Console to change the type of storage that is used for the cluster.

If you need to convert an existing HDD cluster to SSD, or vice-versa, you can export the data from the existing instance and import the data into a new instance. Alternatively, you can write a Cloud Dataflow or Hadoop MapReduce job that copies the data from one instance to another.

NEW QUESTION # 89

In order to securely transfer web traffic data from your computer's web browser to the Cloud Dataproc cluster you should use a(n) _____.

- A. VPN connection
- B. FTP connection
- C. Special browser
- **D. SSH tunnel**

Answer: D

Explanation:

Explanation

To connect to the web interfaces, it is recommended to use an SSH tunnel to create a secure connection to the master node.

Reference:

https://cloud.google.com/dataproc/docs/concepts/cluster-web-interfaces#connecting_to_the_web_interfaces

NEW QUESTION # 90

You are creating a data model in BigQuery that will hold retail transaction data. Your two largest tables, sales_transaction_header and sales_transaction_line, have a tightly coupled immutable relationship. These tables are rarely modified after load and are

frequently joined when queried. You need to model the sales_transaction_header and sales_transaction_line tables to improve the performance of data analytics queries.

What should you do?

- A. Create separate sales_transaction_header and sales_transaction_line tables and, when querying, specify the sales transaction line first in the WHERE clause.
- B. Create a sales_transaction table that holds the sales_transaction_header and sales_transaction_line information as rows, duplicating the sales_transaction_header data for each line.
- C. Create a sales_transaction table that Stores the sales_transaction_header and sales_transaction_line data as a JSON data type.
- **D. Create a sales_transaction table that holds the sales_transaction_header information as rows and the sales_transaction_line rows as nested and repeated fields.**

Answer: D

Explanation:

BigQuery supports nested and repeated fields, which are complex data types that can represent hierarchical and one-to-many relationships within a single table. By using nested and repeated fields, you can denormalize your data model and reduce the number of joins required for your queries. This can improve the performance and efficiency of your data analytics queries, as joins can be expensive and require shuffling data across nodes.

Nested and repeated fields also preserve the data integrity and avoid data duplication. In this scenario, the sales_transaction_header and sales_transaction_line tables have a tightly coupled immutable relationship, meaning that each header row corresponds to one or more line rows, and the data is rarely modified after load.

Therefore, it makes sense to create a single sales_transaction table that holds the sales_transaction_header information as rows and the sales_transaction_line rows as nested and repeated fields. This way, you can query the sales transaction data without joining two tables, and use dot notation or array functions to access the nested and repeated fields. For example, the sales_transaction table could have the following schema:

Table

Field name

Type

Mode

id

INTEGER

NULLABLE

order_time

TIMESTAMP

NULLABLE

customer_id

INTEGER

NULLABLE

line_items

RECORD

REPEATED

line_items.sk

STRING

NULLABLE

line_items.quantity

INTEGER

NULLABLE

line_items.price

FLOAT

NULLABLE

To query the total amount of each order, you could use the following SQL statement:

SQL

```
SELECT id, SUM(line_items.quantity * line_items.price) AS total_amount
```

```
FROM sales_transaction
```

```
GROUP BY id;
```

AI-generated code. Review and use carefully. More info on FAQ.

References:

* Use nested and repeated fields

* BigQuery explained: Working with joins, nested & repeated data

* Arrays in BigQuery - How to improve query performance and optimise storage

NEW QUESTION # 91

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