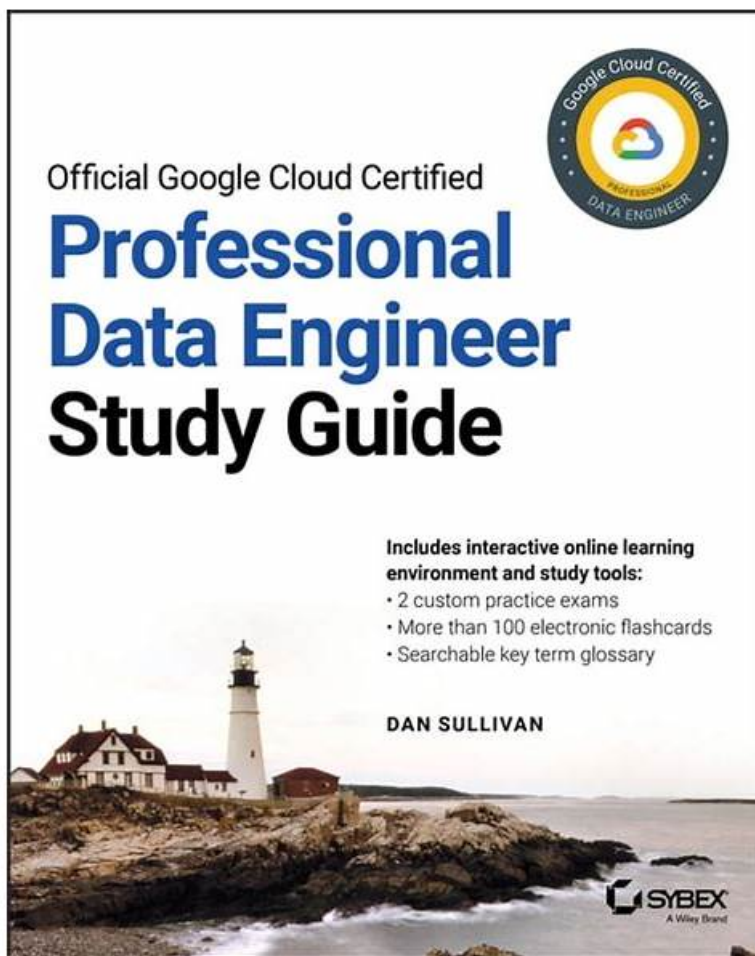


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Google Certified Professional Data Engineer Exam Sample Questions (Q397-Q402):

NEW QUESTION # 397

Which of these numbers are adjusted by a neural network as it learns from a training dataset (select 2 answers)?

- A. Biases
- B. Weights
- C. Continuous features
- D. Input values

Answer: A,B

Explanation:

A neural network is a simple mechanism that's implemented with basic math. The only difference between the traditional programming model and a neural network is that you let the computer determine the parameters (weights and bias) by learning from training datasets.

Reference: <https://cloud.google.com/blog/big-data/2016/07/understanding-neural-networks-with-tensorflow-playground>

NEW QUESTION # 398

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.

Given the record streams MJTelco is interested in ingesting per day, they are concerned about the cost of Google BigQuery increasing. MJTelco asks you to provide a design solution. They require a single large data table called `tracking_table`. Additionally, they want to minimize the cost of daily queries while performing fine-grained analysis of each day's events. They also want to use streaming ingestion. What should you do?

- A. Create a table called `tracking_table` with a `TIMESTAMP` column to represent the day.
- B. Create a partitioned table called `tracking_table` and include a `TIMESTAMP` column.
- C. Create sharded tables for each day following the pattern `tracking_table_YYYYMMDD`.
- D. Create a table called `tracking_table` and include a `DATE` column.

Answer: B

NEW QUESTION # 399

Your weather app queries a database every 15 minutes to get the current temperature. The frontend is powered by Google App Engine and server millions of users. How should you design the frontend to respond to a database failure?

- A. Retry the query with exponential backoff, up to a cap of 15 minutes.
- B. Issue a command to restart the database servers.
- C. Retry the query every second until it comes back online to minimize staleness of data.
- D. Reduce the query frequency to once every hour until the database comes back online.

Answer: A

NEW QUESTION # 400

You are running a pipeline in Cloud Dataflow that receives messages from a Cloud Pub/Sub topic and writes the results to a BigQuery dataset in the EU. Currently, your pipeline is located in `eu-west4` and has a maximum of 3 workers, instance type `n1-standard-1`. You notice that during peak periods, your pipeline is struggling to process records in a timely fashion, when all 3 workers are at maximum CPU utilization. Which two actions can you take to increase performance of your pipeline? (Choose two.)

- A. Change the zone of your Cloud Dataflow pipeline to run in `us-central1`
- B. Increase the number of max workers
- C. Create a temporary table in Cloud Spanner that will act as a buffer for new data. Create a new step in your pipeline to write to this table first, and then create a new pipeline to write from Cloud Spanner to BigQuery
- D. Create a temporary table in Cloud Bigtable that will act as a buffer for new data. Create a new step in your pipeline to write to this table first, and then create a new pipeline to write from Cloud Bigtable to BigQuery
- E. Use a larger instance type for your Cloud Dataflow workers

Answer: C,E

NEW QUESTION # 401

Which SQL keyword can be used to reduce the number of columns processed by BigQuery?

- A. WHERE
- B. LIMIT
- C. BETWEEN

- **D. SELECT**

Answer: D

Explanation:

SELECT allows you to query specific columns rather than the whole table.

LIMIT, BETWEEN, and WHERE clauses will not reduce the number of columns processed by BigQuery.

Reference:

https://cloud.google.com/bigquery/launch-checklist#architecture_design_and_development_checklist

NEW QUESTION # 402

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