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Google Certified Professional Data Engineer Exam Sample Questions (Q330-Q335):

NEW QUESTION # 330

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

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

Answer: C

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 # 331

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.

You create a new report for your large team in Google Data Studio 360. The report uses Google BigQuery as its data source. It is company policy to ensure employees can view only the data associated with their region, so you create and populate a table for each region. You need to enforce the regional access policy to the data. Which two actions should you take? (Choose two.)

- A. Adjust the settings for each table to allow a related region-based security group view access.
- B. Ensure all the tables are included in global dataset.
- C. Adjust the settings for each view to allow a related region-based security group view access.
- **D. Ensure each table is included in a dataset for a region.**
- **E. Adjust the settings for each dataset to allow a related region-based security group view access.**

Answer: D,E

NEW QUESTION # 332

You have an Apache Kafka Cluster on-prem with topics containing web application logs. You need to replicate the data to Google Cloud for analysis in BigQuery and Cloud Storage. The preferred replication method is mirroring to avoid deployment of Kafka Connect plugins.

What should you do?

- A. Deploy a Kafka cluster on GCE VM Instances with the PubSub Kafka connector configured as a Sink connector. Use a Dataproc cluster or Dataflow job to read from Kafka and write to GCS.
- **B. Deploy a Kafka cluster on GCE VM Instances. Configure your on-prem cluster to mirror your topics to the cluster running in GCE. Use a Dataproc cluster or Dataflow job to read from Kafka and write to GCS.**
- C. Deploy the PubSub Kafka connector to your on-prem Kafka cluster and configure PubSub as a Sink connector. Use a Dataflow job to read from PubSub and write to GCS.
- D. Deploy the PubSub Kafka connector to your on-prem Kafka cluster and configure PubSub as a Source connector. Use a Dataflow job to read from PubSub and write to GCS.

Answer: B

NEW QUESTION # 333

You're training a model to predict housing prices based on an available dataset with real estate properties.

Your plan is to train a fully connected neural net, and you've discovered that the dataset contains latitude and longitude of the property. Real estate professionals have told you that the location of the property is highly influential on price, so you'd like to engineer a feature that incorporates this physical dependency.

What should you do?

- A. Provide latitude and longitude as input vectors to your neural net.
- **B. Create a numeric column from a feature cross of latitude and longitude.**
- C. Create a feature cross of latitude and longitude, bucketize at the minute level and use L1 regularization during optimization.
- D. Create a feature cross of latitude and longitude, bucketize it at the minute level and use L2 regularization during optimization.

Answer: B

Explanation:

Explanation

Reference <https://cloud.google.com/bigquery/docs/gis-data>

NEW QUESTION # 334

You are developing a new deep learning model that predicts a customer's likelihood to buy on your ecommerce site. After running an evaluation of the model against both the original training data and new test data, you find that your model is overfitting the data. You want to improve the accuracy of the model when predicting new data. What should you do?

- **A. Increase the size of the training dataset, and decrease the number of input features.**
- B. Reduce the size of the training dataset, and increase the number of input features.
- C. Reduce the size of the training dataset, and decrease the number of input features.
- D. Increase the size of the training dataset, and increase the number of input features.

Answer: A

Explanation:

<https://machinelearningmastery.com/impact-of-dataset-size-on-deep-learning-model-skill-and-performance-estimates/>

NEW QUESTION # 335

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