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Google Certified Professional Data Engineer exam is a certification exam offered by Google for individuals who want to demonstrate their expertise in designing and building data processing systems on the Google Cloud Platform. Professional-Data-Engineer exam is designed to test candidates on their knowledge of data processing systems, machine learning, and data analysis tools on Google Cloud Platform.

Google Professional-Data-Engineer certification exam is designed to validate the skills and knowledge of individuals working in the field of data engineering. Google Certified Professional Data Engineer Exam certification is intended for those professionals who have expertise in designing, building, and maintaining data processing systems using Google Cloud Platform services. Professional-Data-Engineer Exam evaluates the candidates' ability to design, implement, and manage data processing systems, as well as their understanding of data analysis and machine learning concepts.

>> **Sample Professional-Data-Engineer Questions Answers** <<

Professional-Data-Engineer High Quality, Professional-Data-Engineer Valid Test Sample

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Google Certified Professional Data Engineer Exam Sample Questions (Q299-Q304):

NEW QUESTION # 299

Your company is streaming real-time sensor data from their factory floor into Bigtable and they have noticed extremely poor performance. How should the row key be redesigned to improve Bigtable performance on queries that populate real-time dashboards?

- A. Use a row key of the form <sensorid>.

- B. Use a row key of the form <timestamp>#<sensorid>.
- C. Use a row key of the form <timestamp>.
- D. Use a row key of the form >#<sensorid>#<timestamp>.

Answer: D

Explanation:

Best practices of bigtable states that rowkey should not be only timestamp or have timestamp at starting. It's better to have sensorid and timestamp as rowkey.

NEW QUESTION # 300

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 europe-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. Use a larger instance type for your Cloud Dataflow workers
- D. 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
- E. 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

Answer: B,C

NEW QUESTION # 301

You are developing an application on Google Cloud that will automatically generate subject labels for users' blog posts. You are under competitive pressure to add this feature quickly, and you have no additional developer resources. No one on your team has experience with machine learning. What should you do?

- A. Call the Cloud Natural Language API from your application. Process the generated Sentiment Analysis as labels.
- B. Build and train a text classification model using TensorFlow. Deploy the model using Cloud Machine Learning Engine. Call the model from your application and process the results as labels.
- C. Call the Cloud Natural Language API from your application. Process the generated Entity Analysis as labels.
- D. Build and train a text classification model using TensorFlow. Deploy the model using a Kubernetes Engine cluster. Call the model from your application and process the results as labels.

Answer: C

Explanation:

As time is less, use cloud NLP and entity is used to label general subjects, sentiment label for sentiment analysis.

NEW QUESTION # 302

You are designing storage for two relational tables that are part of a 10-TB database on Google Cloud. You want to support transactions that scale horizontally. You also want to optimize data for range queries on nonkey columns. What should you do?

- A. Use Cloud Spanner for storage. Use Cloud Dataflow to transform data to support query patterns.
- B. Use Cloud Spanner for storage. Add secondary indexes to support query patterns.
- C. Use Cloud SQL for storage. Use Cloud Dataflow to transform data to support query patterns.
- D. Use Cloud SQL for storage. Add secondary indexes to support query patterns.

Answer: A

NEW QUESTION # 303

You need to detect the average noise level from a sensor when data is received for a duration of more than 30 minutes, but the

window ends when no data has been received for 15 minutes.
What should you do?

- A. Use tumbling windows with a 15-minute window and a fifteen-minute. withAllowedLateness operator.
- B. Use session windows with a 30-minute gap duration.
- **C. Use session windows with a 15-minute gap duration.**
- D. Use hopping windows with a 15-minute window, and a thirty-minute period.

Answer: C

Explanation:

Session windows are dynamic windows that group elements based on the periods of activity. They are useful for streaming data that is irregularly distributed with respect to time. In this case, the noise level data from the sensors is only sent when it exceeds a certain threshold, and the duration of the noise events may vary. Therefore, session windows can capture the average noise level for each sensor during the periods of high noise, and end the window when there is no data for a specified gap duration. The gap duration should be 15 minutes, as the requirement is to end the window when no data has been received for 15 minutes. A 30-minute gap duration would be too long and may miss some noise events that are shorter than 30 minutes. Tumbling windows and hopping windows are fixed windows that group elements based on a fixed time interval. They are not suitable for this use case, as they may split or overlap the noise events from the sensors, and do not account for the periods of inactivity. Reference:

Windowing concepts

Session windows

Windowing in Dataflow

NEW QUESTION # 304

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