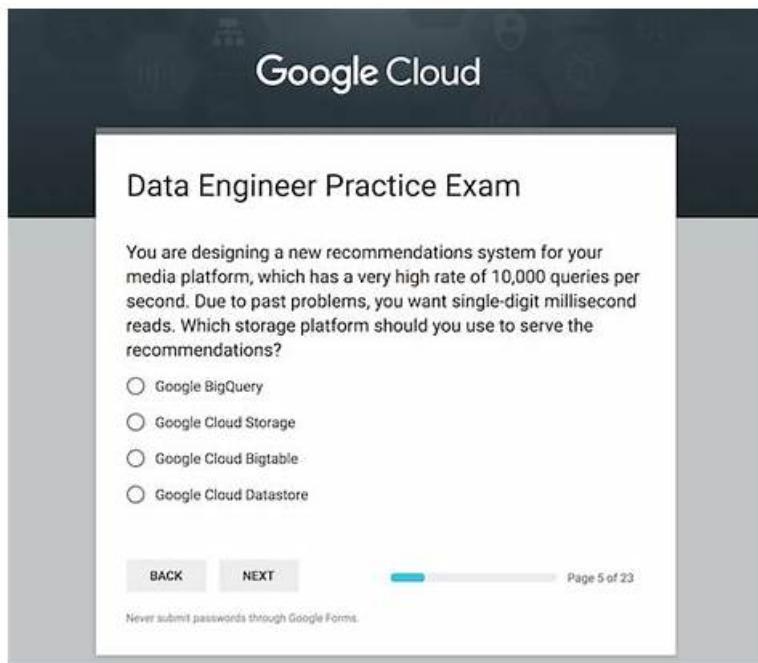


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>> **Exam Professional-Data-Engineer Answers <<**

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Google Certified Professional Data Engineer Exam Sample Questions (Q220-Q225):

NEW QUESTION # 220

You maintain ETL pipelines. You notice that a streaming pipeline running on Dataflow is taking a long time to process incoming data, which causes output delays. You also noticed that the pipeline graph was automatically optimized by Dataflow and merged into one step. You want to identify where the potential bottleneck is occurring. What should you do?

- A. Insert output sinks after each key processing step, and observe the writing throughput of each block.
- **B. Insert a Reshuffle operation after each processing step, and monitor the execution details in the Dataflow console.**
- C. Log debug information in each ParDo function, and analyze the logs at execution time.
- D. Verify that the Dataflow service accounts have appropriate permissions to write the processed data to the output sinks

Answer: B

Explanation:

A Reshuffle operation is a way to force Dataflow to split the pipeline into multiple stages, which can help isolate the performance of each step and identify bottlenecks. By monitoring the execution details in the Dataflow console, you can see the time, CPU, memory, and disk usage of each stage, as well as the number of elements and bytes processed. This can help you diagnose where the pipeline is slowing down and optimize it accordingly. References:

- * 1: Reshuffling your data
- * 2: Monitoring pipeline performance using the Dataflow monitoring interface
- * 3: Optimizing pipeline performance

NEW QUESTION # 221

Which Cloud Dataflow / Beam feature should you use to aggregate data in an unbounded data source every hour based on the time when the data entered the pipeline?

- A. The with Allowed Lateness method
- **B. A processing time trigger**
- C. An event time trigger
- D. An hourly watermark

Answer: B

Explanation:

When collecting and grouping data into windows, Beam uses triggers to determine when to emit the aggregated results of each window.

Processing time triggers. These triggers operate on the processing time - the time when the data element is processed at any given stage in the pipeline.

Event time triggers. These triggers operate on the event time, as indicated by the timestamp on each data element. Beam's default trigger is event time-based.

NEW QUESTION # 222

You are a head of BI at a large enterprise company with multiple business units that each have different priorities and budgets. You use on-demand pricing for BigQuery with a quota of 2K concurrent on-demand slots per project. Users at your organization sometimes don't get slots to execute their query and you need to correct this. You'd like to avoid introducing new projects to your account.

What should you do?

- A. Create an additional project to overcome the 2K on-demand per-project quota.
- B. Increase the amount of concurrent slots per project at the Quotas page at the Cloud Console.
- **C. Switch to flat-rate pricing and establish a hierarchical priority model for your projects.**

- D. Convert your batch BQ queries into interactive BQ queries.

Answer: C

NEW QUESTION # 223

You set up a streaming data insert into a Redis cluster via a Kafka cluster. Both clusters are running on Compute Engine instances. You need to encrypt data at rest with encryption keys that you can create, rotate, and destroy as needed. What should you do?

- A. Create a dedicated service account, and use encryption at rest to reference your data stored in your Compute Engine cluster instances as part of your API service calls.
- B. Create encryption keys locally. Upload your encryption keys to Cloud Key Management Service. Use those keys to encrypt your data in all of the Compute Engine cluster instances.
- C. Create encryption keys in Cloud Key Management Service. Reference those keys in your API service calls when accessing the data in your Compute Engine cluster instances.
- D. Create encryption keys in Cloud Key Management Service. Use those keys to encrypt your data in all of the Compute Engine cluster instances.

Answer: B

Explanation:

Explanation/Reference:

NEW QUESTION # 224

A live TV show asks viewers to cast votes using their mobile phones. The event generates a large volume of data during a 3 minute period. You are in charge of the Voting restructure* and must ensure that the platform can handle the load and that all votes are processed. You must display partial results while voting is open. After voting closes you need to count the votes exactly once while optimizing cost. What should you do?

- A. Write votes to a Pub Sub topic and have Cloud Functions subscribe to it and write votes to BigQuery
- B. Write votes to a Pub/Sub topic and load into both Bigtable and BigQuery via a Dataflow pipeline. Query Bigtable for real-time results and BigQuery for later analysis. Shutdown the Bigtable instance when voting concludes
- C. Create a Memorystore instance with a high availability (HA) configuration

Answer: B

Explanation:

D Create a Cloud SQL for PostgreSQL database with high availability (HA) configuration and multiple read replicas

NEW QUESTION # 225

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